

27364	92836	89428	81268	74982	46498	32784	31277
40932	70987	32123	49817	26346	81287	65491	87364
75654	55656	12737	72727	72727	91918	63473	67867
87629	37677	32612	53498	71296	28756	18276	98716
76329	74698	76857	98670	27601	56701	57601	73648
87364	87265	96710	27630	12673	84769	28743	98127
63298	75698	27465	87326	49876	28376	81273	98615
87432	74328	78674	29867	32867	67867	86786	43286
68768	68763	34234	34238	68768	62342	48273	48768
98432	32432	86743	43286	43286	43286	43286	43286
86743	86743	39867	32867	86743	43286	43286	43243
86743	86743	86743	86743	86743	86743	86743	86743
98798	98754	98754	98754	98754	29867	67543	67986
87698	69876	87698	69876	87612	12341	34867	86798
43298	65656	56756	56123	32143	14321	32143	14321
58765	58765	58765	58765	58765	58765	58765	58765

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #331, April 2025

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

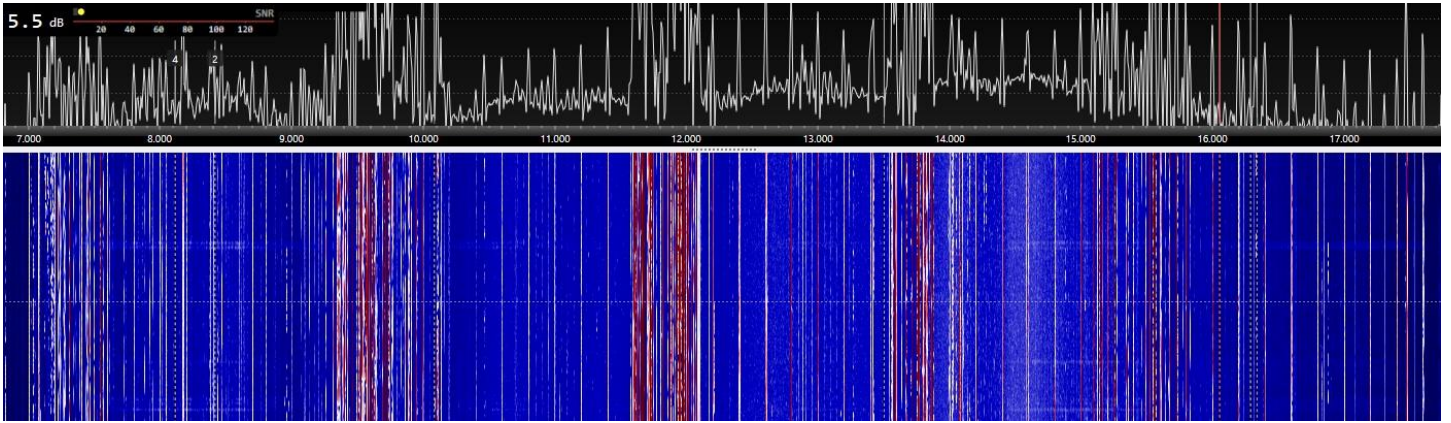


- . . . - - - - - - -

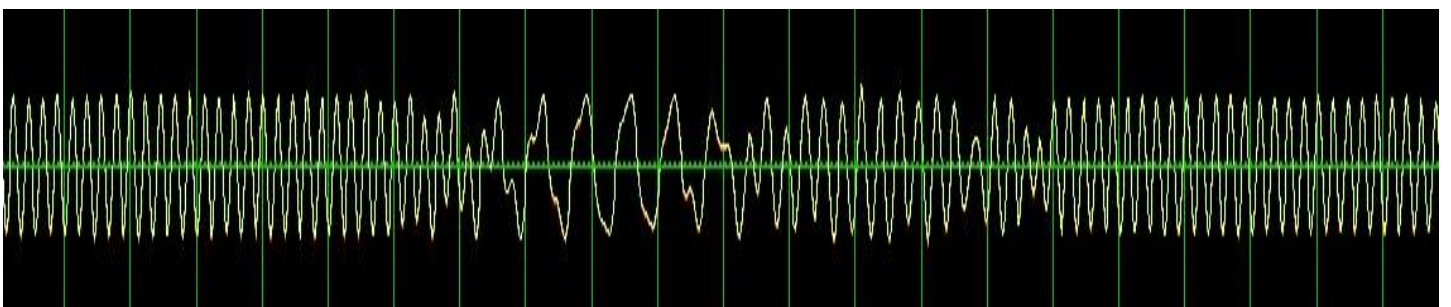


Numbers and Oddities

CONTENT



CONTENT.....	2
FOREWORD.....	3
VOICE STATIONS	3
MORSE STATIONS	21
DIGITAL MODES	36
DIPLOMATIC STATIONS.....	71
UTILITY ROUND-UP	73
RUSSIAN MILITARY TRANSCRIPTS.....	74
LOGS SECTION.....	76
CONTRIBUTORS.....	143
APPENDIX.....	144
COLOPHON	147



FOREWORD

We received quite some Russian exercise logs and recordings, including an odd LSB/USB E06, E07, even a female voice E07, several M12's, M14 and some XPA2 transmissions.

While looking for test/exercise messages, Pierre found a couple of new M12 cycles. You can find the transcripts in the M12 section.

M23 was very active and continues in May. We also heard some interesting unid stations.

Due to circumstances, the May edition of N&O will appear very late or it will be a combined May/June edition. You'll see. In any case, keep the logs coming. They are much appreciated.

VOICE STATIONS

E06

Test / exercise traffic

10423 kHz, 04-04, 1315 UTC. Switching between LSB and USB.

058 (R3m45s) [USB -> LSB] 058 (R15s) 123 40 [LSB -> USB]
20880 31825 61293 93911 71263 [USB -> LSB] 3 39603 73755 62428 59358 39251
87135 62674 86991 5002 [LSB -> USB] 50022 99152 38331 45245 90772 16975 625 [USB -> LSB] 62599
18605 [LSB -> USB] 29221 76322 99023 44889 16417 12002 55770 16309 33827
95091 36666 63976 [USB -> LSB] 47520 86 [LSB -> USB] 86024 61253 76772 6316 [14s silence]
47520 86024 61253 76772 63160 13928 [2s silence]
058 058 058 058
47520 8 [USB -> LSB] 60 [LSB -> USB] 86024 61253 [2s silence]
47520 86024 61253 76772 [2s silence]
47520 [2s silence]
058 058
47520 86024 61253 76772 63160 13928 53763 [2s silence]
47520 86024 61253 76772 63160 13928 53 [2s silence]
058 (R1m30s)
47520 86024 61253 76772 63160 13928 53763
123 40 00000

Full recomposed message:

058 123 40
20880 31825 61293 93911 71263 39603 73755 62428 59358 39251
87135 62674 86991 50022 99152 38331 45245 90772 16975 62599
18605 29221 76322 99023 44889 16417 12002 55770 16309 33827
95091 36666 63976 47520 86024 61253 76772 63160 13928 53763
123 40 00000

10755 kHz, 16-04, 0840 UTC

i.p. 975 (R) repeated for at least 10 minutes before sending a message, signal fading out

Fixed schedules

11487/9412 kHz, 05-04, 1600/1630 UTC

13945/11128 kHz, 06-04, 0730/0800 UTC

480 179 46
05875 61595 13576 07363 05815 71068 14393 61474 50808 48932
46508 01238 94132 92812 30548 79658 59498 89725 51406 78925
37391 06361 20874 28914 04510 14717 23781 56378 26191 47182
45894 42018 91813 56987 18736 97830 24783 73282 09784 30676
75706 61919 46950 04365 08937 01283
179 46 00000

11487/9412 kHz, 19-04, 1600/1630 UTC
13945/11128 kHz, 20-04, 0730/0800 UTC

480 175 43
18085 54865 90479 41969 65863 39265 95439 21741 24860 45963
95073 25423 70254 70348 28196 17602 07017 98649 67816 34694
29515 03276 45270 36574 04957 57451 53819 06819 75028 42145
60313 86474 30820 85797 59235 46083 84908 97830 47954 75162
73642 75820 48512
175 43 00000

E07

16257/18257/19157 kHz, 1500/1520/1540 UTC

16257/18257/19157 kHz, 01-04/04-04, 1500/1520/1540 UTC

221 221 221 1 164 85 164 85
17961 00049 68036 05237 50906 76784 30403 35709 91949 00457
28556 31861 12458 10937 33278 85412 68648 16874 16498 80451
59794 95026 73179 95366 24060 36808 48412 19051 10332 16617
54709 11598 76456 08132 66191 55237 62873 24752 91129 96561
97921 80774 25532 62386 40367 35938 63852 05363 32028 37197
22820 39962 29827 05043 22706 28645 20694 05204 19163 56931
40891 00515 41367 58057 61244 82290 98155 95305 11407 09730
13164 14160 27900 35245 13646 08730 19854 18959 06213 51212
24024 48499 26667 55315 53075 000 000

16257/18257/19157 kHz, 15-04/18-04, 1500/1520/1540 UTC

221 221 221 1 5132 176 5132 176
12444 69610 73291 00683 09338 30831 66107 33894 70315 79327
99264 37828 01828 86301 55496 78839 78926 21530 96624 59552
27339 77462 38237 74126 49501 05534 21618 92616 90275 35644
74314 26506 86964 95640 43789 91128 71863 03902 01909 12801
50138 94642 45211 84383 72944 05869 67234 60923 74882 30601
22248 72101 82778 20639 07575 81810 76601 69510 09389 34836
88709 52544 37381 15897 34415 22956 66792 60432 59426 79509
08667 93567 84007 43191 76966 94609 93771 77144 51903 47206
44600 50211 38091 04035 62254 11530 51616 89634 35538 38880
98863 42683 62502 51608 06981 20366 76215 34420 60928 29694
56029 94117 17338 48329 94041 40437 33212 61123 61092 50336
15177 83173 35364 33861 30252 72101 82650 26349 95020 91818
13283 11084 93359 08725 30487 49259 00151 89014 64584 20156
14063 45424 70497 73545 44828 85099 30635 54614 85293 83573
40139 76429 98059 95140 26644 76748 11792 38899 55823 14750
99538 67545 79250 77691 64068 98621 41502 00945 58786 51023
26303 25243 15657 02030 09874 53490 24793 57696 46503 79391
69117 16325 96013 71364 52028 00917 000 000

16257/18257/19157 kHz, 29-04, 1500/1520/1540 UTC

221 221 221 1 496 155 496 155
52457 76242 24729 52794 97995 96034 18811 14432 01610 04618
00226 32236 92957 05353 82770 17385 63965 86572 09351 08298
24117 52711 02695 39939 05233 73811 56714 52222 24230 00385
07259 51703 59998 40416 04157 76085 15396 84413 78122 71951
66514 72344 96089 00213 29765 23173 71181 49521 38575 27813
21608 98391 81928 23994 22214 50234 41436 82515 49146 47410
78492 14807 37042 58023 53216 95016 13709 27680 46977 43548
19491 82665 01748 21691 65582 17109 84979 34369 81003 62046
70386 79784 83478 10480 96045 06167 89911 82656 25101 43607
06037 72583 55275 70321 84541 97719 94310 85450 88915 75984
34135 74927 29835 12345 65830 23577 99415 43789 85381 34020
30066 24306 66515 07977 15330 79305 23040 07566 66487 88291
60347 93362 04631 47536 68650 82857 56405 78946 56487 64718

99661 81775 53265 43029 42613 84586 22600 58321 17904 20725
44335 89924 99302 39920 26921 23626 77840 39343 79253 68622
99570 82821 31479 20719 41456 000 000

16331/15831/14831 kHz, 1410/1430/1450 UTC

16331/15831/14831 kHz, 10-04/12-04, 1410/1430/1450 UTC
10-04, 1410 UTC: Restart after group 118

893 893 893 1 2199 166 2199 166
92991 34206 33502 22530 50355 13035 87828 84770 16298 19045
63983 11413 17766 26742 79036 75849 18214 52834 55772 66791
80684 79172 80545 98002 01471 24548 59882 51291 48789 96054
32139 65442 96284 61893 90565 84582 35004 76932 63308 34440
35738 35937 43338 71480 56175 92866 86841 16504 21842 60732
23994 43468 83586 67558 63750 65822 61438 11083 22803 31779
75601 01991 86578 15206 33931 72224 85747 07524 00812 90305
64072 91358 34477 27307 01908 38951 05962 48940 60349 27106
70361 89926 81721 73028 59281 01747 74103 96420 92544 95362
23513 41284 88145 03088 61294 05439 14646 43964 32543 26738
15624 64141 25186 05292 47246 49146 39156 98337 76439 41594
54826 32228 59517 08422 62074 89772 06851 93041 48442 49206
97543 23888 71104 77384 70131 63451 97227 57514 08712 51985
17958 88130 11833 13352 14975 69198 79977 76745 63891 20633
83501 74191 19475 68444 06426 94156 69052 78547 22615 30324
69485 57869 70083 12443 60808 92705 70659 64775 10828 47966
45903 09895 08129 34098 96440 91647 000 000

16331/15831/14831 kHz, 17-04/19-04, 1410/1430/1450 UTC
No transmissions found

18273/17459/15891 kHz, 1000/1020/1040 UTC

18273/17459/15891 kHz, 24-04/26-04, 1000/1020/1040 UTC
248 248 248 1 9189 84 9189 84
27471 80248 37355 56375 53327 20992 21727 81522 22717 70832
58543 88618 16512 55029 12656 48355 63078 44026 45819 16091
36724 05323 92442 61839 92799 47432 65740 51202 31168 14061
23022 36544 91860 35136 48115 85675 49299 98071 26725 23265
16481 00918 88909 59771 82772 05702 32510 34680 60700 49239
83475 52925 15114 55982 83157 83317 46927 94928 82912 97985
28409 44039 87047 26969 30145 66671 99274 21278 69438 88090
17534 84331 47189 61660 98749 03145 63210 19234 90686 81861
56556 06514 73359 54556 000 000

Test / Exercise transmissions

Unconfirmed possible E07 transmissions

11561/12177/13472 kHz, 04-04, 0700/0720/0740 UTC
11561/12177/13472 kHz, 04-04, 0800/0820/0840 UTC
11561/12177/13472 kHz, 04-04, 0900/0920/0940 UTC

11561/12177/13472 kHz, 10-04, 1200/1220/1240 UTC
421 421 421 1 8889 45 8889 45
31971 48037 65357 57160 70671 18327 58009 37396 87646 01494
28495 42825 69149 86214 04974 25314 07832 52963 71771 54734
23778 64159 61553 20481 15551 92538 10496 37459 33149 86385
88949 39255 64236 54107 92633 70784 05813 40801 86180 16744
57401 24105 40768 67766 67416 000 000

10659/11415/12147 kHz, 10-04, 1300/1320/1340 UTC. Female voice

614 614 614 1 1557 94 1557 94
83889 62358 74679 35579 07001 87595 39214 28587 21254 02503
89329 36111 69671 97439 65621 32635 15489 39128 73257 24222
13750 85471 32550 77709 26695 26842 66450 94727 14923 09013
90642 89641 59741 51667 45358 51462 10359 16466 27385 89841
83950 12299 12253 06734 84578 44674 26365 58087 96775 37268
61582 31372 36527 43842 92362 98417 29807 96968 08883 80158
21145 44485 13664 12241 11860 99686 76368 18003 52081 14158
22275 99022 11743 83414 40270 01451 73218 25816 93130 82020
00477 08362 97951 77654 47429 59269 53114 15899 59303 46940
21655 13389 07583 47226 000 000



This female voice was occasionally heard in the past. Both above mentioned cycles used the same slower pace than normal. The transmitter noise was the same on both cycles: it has apparently been heard on regularly scheduled V07 transmissions too.

E11a

8180 kHz, 01-04/04-04, 0700 UTC

575/33 Attention
54504 48598 14911 86263 26542 39789 44487 85907 41728 78620
83383 92258 90880 29572 21039 27378 14995 91060 72614 32158
59535 49528 69929 87276 36770 86479 69729 87275 71463 76162
70783 04099 79028
Attention (message repeated) Out

5176 kHz, 01-04/06-04, 1605 UTC

237/33 Attention
28447 71445 31258 18464 82467 90472 24459 70366 53524 32988
87265 39140 98747 24143 53926 26697 81405 29586 16370 41308
00124 33434 54026 70196 37770 38217 94486 95433 50107 19428
00015 29718 89171
Attention (message repeated) Out

6923 kHz, 02-04/04-04, 1715 UTC

970/34 Attention
38979 01563 96168 11687 32516 43264 95716 97018 24810 97203
39221 10880 98803 17579 72620 33905 81545 61593 96495 85333
10687 23320 41551 13517 75615 29818 55529 08526 14869 59796
63581 24098 28674 51906
Attention (message repeated) Out

5737 kHz, 03-04/06-04, 2000 UTC

525/33 Attention
69227 69292 44708 19572 49170 13117 62604 74633 99099 53862
00257 35993 22750 71522 93355 31070 86333 57211 77209 31898
93642 77249 75326 04769 82709 49806 36572 80584 04405 93094
69275 63646 28916
Attention (message repeated) Out

11116 kHz, 04-04/06-04, 1815 UTC

920/39 Attention
68480 62966 58002 24117 17166 17216 13097 55855 83209 58004
68093 38978 67885 74969 31002 34387 38678 81256 21440 31725
29017 49393 43223 13416 37698 74966 52172 45017 39084 41311
47415 79395 49697 56558 98507 15582 44879 96108 41549
Attention (message repeated) Out

8530 kHz, 04-04/06-04, 1910 UTC

617/36 Attention

15938 65126 10836 47839 15363 95929 27175 33436 81655 22375
24810 97269 10263 36626 99138 51677 71672 83063 84180 88626
83037 71561 91415 15831 98737 50565 62558 40782 39480 99672
60012 61851 17406 24392 30208 59265

Attention (message repeated) Out

10800 kHz, 07-04/09-04, 0645 UTC

410/32 Attention

80477 24324 29787 81698 65498 62079 12251 53993 98866 00464
38537 65009 36949 96435 37782 78176 14762 36227 85471 15289
30745 80894 24899 83367 43680 46036 03504 61410 56540 44220
96054 62257

Attention (message repeated) Out

20170 kHz, 07-04/11-04, 0830 UTC

185/38 Attention

54038 20197 93793 26574 79851 93137 55236 35325 43408 71047
83473 59962 57042 27492 74143 05797 47054 06734 41212 58500
40876 67385 83586 06146 95836 36580 10084 95831 15317 56950
00983 37176 40742 49710 85858 24051 25889 32007

Attention (message repeated) Out

14865 kHz, 08-04/10-04, 0745 UTC

224/35 Attention

44319 48273 67449 61799 80000 24082 76824 50164 69399 03078
62690 90392 90720 72190 07568 19566 58372 66259 36572 13498
54705 87862 66430 33742 14994 92960 64264 69089 57061 96707
27855 08202 26774 70813 39298

Attention (message repeated) Out

17410 kHz, 09-04/11-04, 0745 UTC

347/33 Attention

27927 50105 63501 53672 76199 68320 08360 08706 39164 24756
61215 18623 69167 64990 74144 81333 75218 46167 21152 56986
17637 78291 20622 47933 01110 66655 15427 06282 32636 30730
10144 19631 31622

Attention (message repeated) Out

4181 kHz, 09-04/12-04, 1610 UTC

393/31 Attention

93646 14338 61836 97020 51905 68044 62586 50567 72923 51914
52118 47117 03839 98886 56513 75599 27157 71985 13943 91745
23033 15507 98310 63440 71771 09199 43230 04425 88723 04849
27530

Attention (message repeated) Out

9446 kHz, 10-04/11-04, 0720 UTC

430/35 Attention

50497 43185 48839 05211 98215 28235 43677 72017 94357 80110
95849 90220 96733 40676 04077 70356 00935 71079 44275 98965
59347 83540 89714 71718 05460 03415 42065 54852 58340 65187
10015 64961 74082 77121 67431

Attention (message repeated) Out

10213 kHz, 14-04/17-04, 0745 UTC

269/36 Attention

57118 77181 96602 90575 68644 48484 17874 23692 94971 73141
83296 21984 08311 28768 82048 10090 32875 15469 07959 37295
73923 34265 39682 12932 15579 99157 54520 56553 26771 17879
61664 95641 89128 05086 79916 80592

Attention (message repeated) Out

5371 kHz, 14-04/17-04, 1300 UTC

312/36 Attention

34830 60921 45110 50084 32853 50350 28392 59159 54395 72630
55521 07597 19134 79734 93257 93393 57262 63726 11686 43296
38201 91996 78396 91441 86839 58606 15072 93531 29256 52029
44460 11575 02060 02809 92035 29057

Attention (message repeated) Out

13470 kHz, 14-04/20-04, 1745 UTC

242/37 Attention

34755 47920 51115 10294 36397 03073 45254 04153 29971 26143
81475 05040 68794 62039 50140 41721 47336 05064 54203 77834
58843 19981 09001 75135 85204 95249 61068 35903 42905 58823
10560 96619 72494 05146 20595 46117 44295

Attention (message repeated)

14666 kHz, 15-04/18-04, 0715 UTC

637/37 Attention

39445 06467 44046 50672 61415 83155 95208 29986 09503 75063
90555 39788 49185 56788 57054 43093 18068 65923 57104 46030
37183 80914 37681 70862 50190 05692 44721 88103 14871 66185
81100 82863 54296 71688 98548 43754 37832

Attention (message repeated) Out

E11a 18168kHz 0845z 2025-04-15

156/36 Attention

45903 47626 24878 38305 94969 62945 72518 87022 13877 69803
42360 38733 79667 60724 88303 63791 78914 37788 04027 00725
94720 14216 80726 86275 40691 55432 90693 40895 98888 49736
71195 95968 27303 21461 95046 25811

Attention (message repeated) Out

12530 kHz, 15-04/17-04, 1230 UTC

333/38 Attention

38260 61083 46266 81079 48041 04736 33307 98779 33313 76470
51080 32016 39197 54203 49943 54575 38003 09842 37903 70410
81499 55632 55260 46359 69669 50657 80743 05552 98347 92384
96091 69631 05620 30620 48708 13278 36907 67541

Attention (message repeated) Out

14972 kHz, 15-04/19-04, 1430 UTC

911/36 Attention

34509 88201 21593 96044 51925 75305 77962 28258 11604 31160
43747 77899 01074 35036 96310 84669 35544 84616 33872 71092
84357 03119 06729 58660 63880 60263 54230 46163 64904 68140
83375 61600 95874 87644 10069 28065

Attention (message repeated) Out

6940 kHz, 16-04/17-04, 0930 UTC

277/39 Attention

67430 65379 35912 51596 00783 06241 93852 06356 33944 18218
74557 08847 13535 69220 67245 03350 21242 30494 43113 28731
91162 95928 94422 26712 29469 42002 33721 11383 52981 58445
31311 60479 97353 12019 72626 12682 18074 42469 67923

Attention (message repeated) Out

8680 kHz, 18-04/20-04, 0600 UTC

353/31 Attention

83993 25707 16343 90809 60386 26586 71843 09812 13314 69960
02244 60456 13117 41104 76599 28345 69653 83209 27021 35959
20592 07541 12498 19952 99375 66571 96819 27631 81586 90670
22952

Attention (message repeated) Out

9079 kHz, 19-04/20-04, 0700 UTC

491/34 Attention

26845 68272 15554 00234 96517 50045 02828 24437 87820 88303
62262 09659 90538 50252 17294 72843 91886 60182 93264 31526
60914 98016 56338 23085 43403 60391 82024 76427 83110 86939
75656 80301 80874 87290

Attention (message repeated) Out

12202 kHz, 21-04/23-04, 0845 UTC

718/33 Attention

31457 10887 16140 87622 94416 44180 37294 92201 14654 97232
09014 27429 29231 05515 40850 40962 90767 67323 34171 28380
03533 70356 97951 78858 69850 76452 07097 24172 35221 17425
54343 45531 43810

Attention (message repeated) Out

7317 kHz, 21-04/24-04, 1900 UTC

646/38 Attention

67438 67860 04039 69177 63054 46049 02736 94777 36055 73069
20594 96622 83251 12182 51324 51379 59126 61168 03718 28981
77820 66222 41823 62573 19825 58059 57872 80128 50473 20071
01721 32356 88691 54694 77204 28423 98119 02337

Attention (message repeated) Out

13470 kHz, 22-04/24-04, 0645 UTC

518/37 Attention

38464 94928 16735 54781 52799 12094 86884 78275 67912 26525
44870 90085 32081 82237 78929 45453 43538 33794 84131 89924
62054 64549 87399 01446 93171 04243 41725 54225 94598 62200
33952 38556 78389 92736 57757 18447 78593

Attention (message repeated) Out

9951 kHz, 22-04/25-04, 1000 UTC

308/21 Attention

49871 13941 14930 63277 79749 52533 32539 16883 30103 43768
75628 11817 93153 58380 76974 54559 35586 36056 04378 31434
52380

Attention (message repeated) Out

9399 kHz, 22-04/23-04, 1205 UTC

463/32 Attention

15132 36515 95988 43040 62591 97329 25529 12903 62535 98309
17733 20186 31979 55709 95374 88271 65621 64111 20326 96139
19432 71937 36625 77190 28819 81114 98819 35620 57606 22452
45627 30553

Attention (message repeated) Out

4505 kHz, 26-04/27-04, 1645 UTC

363/30 Attention

82203 93042 85529 71178 00286 34992 37108 89059 39828 20089
81478 36511 97372 83498 45036 17881 57784 11083 67145 38822
93402 03079 15314 87427 81009 43593 14956 22619 93560 03797

Attention (message repeated) Out

25839 kHz, 28-04/30-04, 0600 UTC

948/37 Attention

28928 27549 07160 61219 67346 93811 18836 65207 57966 75445
54888 19446 01033 58841 48564 97713 70477 70216 50353 06710
48931 61543 53608 03160 21366 19655 54428 08733 66286 74621
87856 52247 91305 99161 20520 17204 44606

Attention (message repeated) Out

19515 kHz, 28-04/30-04, 0715 UTC

750/38 Attention

15636 00370 39804 49074 61868 18687 63641 22316 65582 38534
22920 35602 81338 38883 44753 68052 98357 00378 88768 06225
36738 88588 92205 67798 62743 16271 99744 05131 89060 94201
85268 27439 88547 72370 78103 59336 54316 37802

Attention (message repeated) Out

13117 kHz, 28-04/30-04, 0900 UTC

532/32 Attention

00830 99382 10010 81275 21451 49681 75899 76080 68546 13926
28503 89310 54546 64580 78987 34619 51437 59525 93132 39162
39460 22826 30041 59706 14604 35426 17165 46624 75175 10885
98100 32347

Attention (message repeated) Out

12385 kHz, 28-04/30-04, 1045 UTC

696/22 Attention

22726 67487 17952 56523 43761 50014 79053 32785 23237 61773
40004 95498 90244 49085 17621 47966 88946 55399 51210 47810
15222 35519

Attention (message repeated) Out

19184 kHz, 29-04/30-04, 0820z UTC

136/39 Attention

69834 28062 51639 05272 22775 40330 95233 74159 98787 73896
45383 14116 65058 02669 40198 24822 23601 50318 50740 61086
17629 94717 96804 33863 88783 51315 61313 77311 35923 81822
92207 65368 11352 75271 05385 26349 87884 34428 35242

Attention (message repeated) Out

S06

12207/11128 kHz, 02-04, 0930/1030 UTC

480 253 41

34261 53101 64983 36180 80108 75149 30696 51856 08415 38093
79289 38417 15793 68950 29085 03174 74109 28240 02596 46352
92516 32580 52103 60424 58234 39212 12742 93654 39751 49465
50697 13473 97086 28307 96795 57123 49684 71521 05354 75458
09625

253 41 00000

12207/11128 kHz, 09-04, 0930/1030 UTC

480 326 45

40290 69250 46851 71506 42960 87418 41701 78149 36083 03138
05132 47946 90912 46457 60769 05438 70124 74159 68696 46371
59510 96720 04081 23878 28384 30562 78484 81647 05825 90358
36460 10848 87063 24798 71495 47505 76256 80260 53786 63035
83298 50107 83081 04606 39680

326 45 00000

12207/11128 kHz, 16-04, 0930/1030 UTC

480 269 37

29018 68753 10193 91381 94927 83503 19803 61475 12615 14083
14305 49270 65685 53486 67080 27189 39093 52513 69842 75942
24160 21426 84234 25708 16373 10908 38317 17309 50472 74671
24102 34256 29137 94743 78069 21780 10509

269 37 00000

12207/11128 kHz, 23-04, 0930/1030 UTC

480 369 42
15816 14613 19728 51253 23296 20529 56464 70631 80460 67208
05361 98959 08564 17247 62356 26365 13751 87514 61084 36027
87512 35254 82898 16497 25678 01345 70432 23542 21393 03716
08457 96957 23601 03418 58430 89614 92497 64084 73097 63593
28474 37629
369 42 00000

12207/11128 kHz, 30-04, 0930/1030 UTC

480 356 44
65816 75283 61918 48654 60405 85902 54070 18290 63757 62759
84843 63606 09105 46135 24015 27290 30973 56493 52506 36265
06757 16249 03470 38719 04168 31341 61510 82136 50506 21472
45828 85823 85039 52757 80406 04047 71648 15287 16458 07183
20857 10246 26389 98501
356 44 00000

11487/9412 kHz, 12-04, 1600/1630 UTC

13945/11128 kHz, 13-04, 0730/0800 UTC

480 517 43
68178 92126 67353 19078 97195 27415 49724 78298 36130 74123
03524 98264 31753 01796 37374 96857 72465 50507 57808 01872
19520 42594 97987 29283 53526 19145 68762 41879 65121 17310
95374 83489 09217 72041 89350 53249 65820 90329 17368 80952
82829 04363 86378
517 43 00000

11487/9412 kHz, 26-04, 1600/1630 UTC

13945/11128 kHz, 27-04, 0730/0800 UTC

480 127 45
15150 96187 43068 28942 14512 18021 14840 74015 63975 02583
56570 40863 07084 51815 17971 57924 12102 53430 95267 97290
59406 37480 07150 95152 85091 05636 63568 13863 89212 67947
95969 71489 48906 39569 59508 68210 60717 52723 27404 35618
75876 14592 83201 02321 01432
127 45 00000

Pacific schedule

11616/9322 kHz, 0400/0420 UTC

9322kHz 0420z 2025-04-03
480 962 34
76122 32451 51371 16050 33422 33063 34655 81939 51916 79277
76922 61660 54465 21797 88695 67866 79506 03670 14484 44457
28342 15455 02375 83314 92593 51276 78031 63024 91526 14180
65267 20497 73929 44262
962 34
480 731 24
80487 20055 88247 94572 45993 92051 41965 88768 29692 97494
20610 22623 19614 37729 11929 15024 85942 17466 83406 97999
36851 92682 65489 51583
731 24 00000

**11616 kHz, 16-04, 0401 UTC. Starts normally, then ID without pause between numbers, brief restart and resumed normally
9322 kHz, 16-04, 0420 UTC. 480 (R4). Off**

480 172 30
46801 60808 52292 87963 37676 68546 86998 87587 96247 13571
22449 64038 12287 51636 46958 81613 95920 51624 71124 99241
46457 08384 35762 28875 38091 40034 42189 05701 64699 80687
172 30
480 593 21

81489 94529 56876 63625 43955 61075 61755 54151 54091 33571
04690 28028 04163 10718 41070 46654 98407 74913 63915 55283
38848
593 21 00000

S06c

11513 kHz, 21-04, 0830 UTC 11513
3731 kHz, 21-04, 0920 UTC 11513
4643 kHz, 21-04, 0930 UTC 11513

S11a

10728 kHz, 03-04, 0445 UTC

794/33 Vnimanije

90157 54581 59191 32936 86569 11692 17110 60534 98710 53670
99311 57451 54974 74816 46525 98813 05858 66357 23057 07355
11921 13925 24456 72246 00555 46191 41343 43166 31298 08728
30753 34410 55280

Vnimanije (message repeated) Konets

10213 kHz, 02-04/06-04, 1850 UTC

284/34 Vnimanije

70022 73601 25379 24010 86221 31610 31609 08367 93633 34633
55761 32140 95200 24707 00061 48402 19186 97793 27939 07935
90804 49583 70466 12772 97059 58602 37368 94671 50409 26715
25085 79529 66973 16230

Vnimanije (message repeated) Konets

6433 kHz, 05-04/06-04, 0830 UTC

376/30 Vnimanije

35450 22149 21721 25969 50651 61564 52633 01828 70291 53673
79855 59321 80040 31886 49750 30214 62742 92786 09486 77768
07463 12848 35300 29044 04230 63908 42828 83652 92416 66365

Vnimanije (message repeated) Konets

23353 kHz, 09-04, 0725 UTC

389/40 Vnimanije

16141 25826 72172 28782 84715 19020 75699 90304 14185 46953
32866 87912 04479 86019 91751 97237 86922 76146 04025 13190
08952 76657 78932 18580 77174 87577 98298 18302 08551 42030
74437 24811 00170 98494 16302 40105 96130 22092 90468 77685

Vnimanije (message repeated) Konets

11420 kHz, 08-04/11-04, 1400 UTC

427/32 Vnimanije

07951 28505 88353 70331 71782 65408 17904 34935 25747 90902
73396 64244 11726 48069 31376 80358 86299 27633 91716 29247
40811 50326 21351 08896 47165 90645 87129 38463 96675 75840
30016 42229

Vnimanije (message repeated) Konets

8597 kHz, 14-04/17-04, 0700 UTC

477/32 Vnimanije

71707 70282 64593 82669 45410 02608 04246 14715 72398 07371
13256 66223 49886 00589 95668 04841 10341 63155 96394 24376
78211 35494 75313 03363 36257 59636 89911 32479 60798 60225
19413 01437

Vnimanije (message repeated) Konets

23004 kHz, 21-04, 0510 UTC

656/32 Vnimanije

00339 08875 67839 36010 72477 57756 03091 21524 06765 83968
25139 22720 35937 63052 63406 76681 29700 26357 50371 43307
41838 68374 61405 81404 59516 24809 43713 55362 87539 57935
62186 82470

Vnimanije (message repeated) Konets

6480 kHz, 21-04/25-04, 0915 UTC

485/31 Vnimanije

81396 89723 24693 16830 29249 08529 42064 77246 94537 35301
32742 86989 18472 34518 31621 40191 12193 40619 00127 31276
13762 08499 21261 72593 95457 15295 95569 00573 78396 35977
39044

Vnimanije (message repeated) Konets

V07**17431 kHz, 06-04, 0200 UTC**

414 414 414 1 8857 45 8857 45

56761 75875 54431 20974 02565 48541 36707 38721 76156 07622
79330 06478 45155 80425 82095 51148 36171 58113 28260 75763
83379 16684 25272 21984 09663 37677 44560 83608 40530 76676
76583 59359 54463 22148 18237 61164 74488 96257 63576 15741
17010 83596 39669 03923 55631 000 000

17431 kHz, 13-04, 0200 UTC

414 414 414 1 4737 119 4737 119

04154 30910 82227 24948 24810 03825 87180 69875 92025 83760
93241 30839 96502 53322 50065 39149 87397 31455 16788 37324
18825 14638 54296 36716 37709 22810 82864 83483 13150 60371
04589 20535 97812 71593 73755 07380 72777 90921 16233 11726
54257 99266 28572 29821 44369 29033 72862 37389 82443 12225
44653 49398 68999 52033 68600 38499 23152 84664 69485 86119
16379 83874 13998 79849 50504 02546 25499 95748 38454 75084
13279 22006 72202 27471 24746 75802 67898 76244 87877 65505
65941 84931 29505 44340 82916 53044 87864 31594 02478 64432
98010 84685 18093 05055 38808 46037 71183 03531 76316 40745
43786 00135 89817 58085 48826 60694 43404 00675 75027 65991
81621 02119 29038 00401 27942 88833 90394 18102 13586 000 000

17431 kHz, 20-04, 0200 UTC

414 414 414 1 9346 61 9346 61

29078 42423 62148 21672 74902 85256 18092 90595 72653 55468
79508 64254 66034 69944 82130 23240 40276 18983 45710 92569
70879 30452 18845 78716 50739 92367 15497 37707 59200 97711
79509 47206 61297 23177 93685 16238 75433 17336 73058 98319
33246 97590 69469 71944 49195 35532 94854 76787 97859 77981
02102 70541 38189 64285 10051 84421 13754 63008 97781 43455
01127 000 000

17431 kHz, 27-04, 0200 UTC

414 414 414 1 4388 39 4388 39

05591 78643 87358 35835 69093 90634 05236 47036 47648 65389
01778 35761 35738 83635 45471 34970 69658 69158 89266 80995
63127 76753 23498 94954 67017 15040 46961 83360 36723 36167
15845 00158 28675 32069 97683 77138 52741 45595 30340 000 000

V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

V13 designators

- V13 (regular classification) : Standard format. AM/USB hybrid, introductory phrase spoken twice, three messages addressed to three different units, group counts between 30 and 35.
- V13a: Old format. AM mode, introductory phrase spoken only once, analog voice synthesizer, 5-7 messages addressed to 5, 6, or 7 units with group counts between 20 and 39.
- V13b: AM/USB hybrid, introductory phrase spoken twice, 4 messages to 4 units, longer group counts between 50 and 69 in each message.

Thanks to Fspy for the logs, transcripts and notes !

Stations 1b and 2 experienced transmitter failures recently. I have a written log along with my station transcripts. V13a has also been louder in Korea recently instead of the usual Thailand and Hong Kong SDRs. The station is clearly able to beam it's transmissions in various directions.

V13a is still following its usual patterns regarding the series of unit IDs and group counts, with the exception of a more recent broadcast which had 5 messages of 50+ groups instead of the usual 3 messages with 50+ groups. The whole transmission lasted 34 minutes, exceeding the usual time slot.

All of the stations except V13a also continue to transmit later than their designated start times, and recently they've almost always been 5 minutes late. Station 3 also did simulcasts for a brief period, in which it transmitted on both 8300 and 15890 during the 000z/0030z time slots.

15890 kHz, 06-04, 0000 UTC, USB. New Star Broadcasting. Station 3.

Unit IDs: 1535, 6738, 8886

Group Counts: 33, 32, 35

7739 6383 3608 5445 3375 6442 4464 3743 3002 0803
0121 6541 1836 7938 7704 8677 4578 8242 0964 7283
3635 8352 6064 0789 9342 8340 8082 4722 9099 3020
2817 1691 7744

7764 6750 7153 4994 4199 6034 1865 9871 9014 6993
7585 0327 1743 1000 8846 3584 6651 3402 9735 3469
5100 6062 5485 0241 5485 2856 8460 2045 7678 1033
7568 6236

0226 0082 9806 7756 6339 3244 6988 6036 8345 9518
1173 1418 8545 7162 5949 6435 1880 8504 4838 6386
6151 2808 6483 5700 3440 1032 1795 2012 5093 9467
8360 0517 0500 0258 2024

V13a: 19052 kHz, 06-04, 0028 UTC, AM. New Star Broadcasting. Station 1.

Unit IDs: 2987, 3088, 3252, 3676, 3498, 3745, 3935

Group Counts: 10, 14, 14, 11, 15, 10, 16

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820

0705 8407 0597 2932 9171 3678 7745 3278 6976 8440
7179 3066 1626 3294

2466 8255 2790 4817 1491 8742 2872 7726 9763 4924
8878 8271 3082 1410

5007 0216 5928 8896 7744 6505 7704 7080 5574 2060
6810

9553 6439 9982 2437 6760 2956 0858 7722 4952 8815
5099 5732 9530 6847 3386

7052 9888 7739 7494 1976 1436 9135 7841 5892 8646

2878 0936 6288 2799 8770 1612 2831 5436 9606 1743
1570 2680 1774 5767 4981 2851

Note: started two minutes early, a pretty strong contrast to the other stations which start 4 to 5 minutes late!

20025 kHz, 06-04, 0130 UTC, USB. New Star Broadcasting. Station 4
Unit IDs: 2646, 3637, 7780
Group Counts: 33, 33, 30

5074 1930 6858 3745 1383 8477 0107 2407 8852 9828
8624 8687 5880 7276 8831 2872 2929 8358 9977 8538
0301 9594 3247 9066 9008 4512 6005 7728 3684 9424
0780 3351 3298

0296 2338 8458 4607 6165 3702 6501 6170 9470 8961
5396 7513 5502 6200 9371 9321 0442 4532 9746 0602
1161 4876 9660 6915 3032 0586 0882 7611 1023 1027
3765 3450 7628

5698 0250 7749 1446 2112 4464 2580 4361 2318 0791
3358 8039 0506 7241 8363 0739 7393 2578 3317 3184
5774 0383 4146 0498 5429 7990 6004 3608 7875 4064

9276 kHz, 06-04, 0300 UTC, USB. New Star Broadcasting. Station 2
Unit IDs: 0952, 7387, 9622
Group Counts: 32, 33, 33

7464 4699 2479 9174 2583 4378 8084 1334 7060 9905
2543 7622 6871 8331 9530 6972 8460 4490 9262 3643
5611 0655 6373 4859 5256 4316 1171 8626 1592 6407
2665 2130

6761 6974 9556 0983 9555 5923 1705 6477 9226 7765
1754 1513 1392 2388 6295 9292 4490 1989 6314 8187
4706 8670 7026 0492 9373 9665 1424 5207 5927 8916
8691 4299 9175

2191 9934 1261 9395 7163 0481 1069 7555 8169 2394
9193 3353 8484 7963 2541 6849 7632 9332 0134 9408
5457 9840 6690 0092 9865 2278 0192 0909 3507 5682
9044 3951 3154

11430 kHz, 06-04, 0330 UTC, USB. New Star Broadcasting. Station 1
Unit IDs: 1951, 2174, 3216
Group Counts: 35, 31, 33

0465 6054 0662 2874 0550 6870 8423 4733 3782 0081
7685 0577 8752 5289 4161 2990 6853 8133 5471 8224
5880 5710 4111 8343 1168 6638 2506 8847 3392 7961
5891 6617 2751 6677 4262

8477 6741 9285 3869 0490 4409 0966 0310 6526 1391
2999 9893 9165 1840 9923 6266 9763 5093 6232 7530
4998 1969 7865 1699 8871 7466 2807 7128 8871 4359
7434

7152 3913 6504 3383 4367 5261 2273 7075 5935 3971
2952 6333 5484 9460 2633 4062 4171 7116 3459 1735
6060 1920 0923 4257 8177 1375 1689 8471 6357 1290
6531 2104 1919

15890 kHz, 13-04, 0005 UTC, USB. New Star Broadcasting. Station 3

Unit IDs: 2985, 5077, 7105

Group Counts: 35, 33, 31

4673 4325 2119 3231 2224 0391 6034 7811 3208 0201
6911 5711 5526 4895 3509 4893 8949 9213 7819 0039
5717 9364 1827 2313 7710 2145 1954 1317 3079 8785
4072 4899 3847 0953 4560

6824 2888 1964 6120 6519 8496 4540 9659 7407 5094
2278 7129 7218 0011 1718 7251 0359 5755 0139 3682
7837 4219 1160 5193 8686 3042 6112 2867 2852 7954
4068 3688 8500

0062 5884 5302 1911 7639 4791 4278 7669 6985 3971
0415 9316 1622 6747 0402 3649 1183 9907 6125 3236
8374 8073 3604 0329 9278 3540 3267 8318 4559 1180
8376

Note: five minutes late.

20025 kHz, 13-04, 0130 UTC, USB. New Star Broadcasting. Station 4

Unit IDs: 0523, 3594, 6084

Group Counts: 30, 35, 32

2463 2586 0188 4799 6067 0481 7561 5185 3045 7375
5875 0357 9567 2513 3064 7867 8028 9193 1578 4293
4461 7307 1215 4789 0913 1722 0125 7553 6445 1669

9645 6074 6550 2400 7128 2859 5115 1966 4228 7302
4028 8426 0855 7945 9010 2901 6378 3538 2291 2311
2759 4980 9309 9508 4775 8688 2985 9661 7777 5881
1334 2999 9007 5282 6969

2055 9525 1116 7691 5371 3634 1293 7979 6391 9585
3575 4118 6632 5243 6514 6178 5938 7550 1091 9649
6358 9357 9284 7455 0106 6704 6900 0100 8246 8102
5610 3732

8169 kHz, 13-04, 0230 UTC, USB. New Star Broadcasting. Station 1

Unit IDs: 5444, 6922, 7318

Group Counts: 33, 35, 31

6620 2383 5531 3647 8796 7420 7343 6177 5085 1993
0470 7307 7804 1617 2020 4857 7521 1451 1431 6068
2108 9829 7258 0014 1548 2271 9396 3842 5721 8059
2331 8956 8001

3292 1192 9772 7488 7707 7460 3087 2021 5394 6813
3918 9734 1335 4140 8282 7342 0098 9919 1754 1876
3531 9866 5237 7823 5896 0813 8929 5967 2635 8457
3387 6933 6646 0872 1322

1343 0047 7681 4369 0480 9466 6613 0020 0614 6295
7689 6767 1362 2142 5339 9748 3650 3865 5143 9200
9777 0384 0319 1679 2949 7635 6943 5555 7756 2684
6570

V13a: 19052 kHz, 14-04, 0130 UTC, AM. New Star Broadcasting. Station 1

Unit IDs: 4218, 4270, 4667, 4943, 5090, 5356

Group Counts: 20, 28, 25, 29, 28, 27

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820

4747 0705 8407 0597 2932 9171 3678 7745 3278 6976

7179 3066 1626 3294 4659 2466 8255 2790 4817 1491
8742 2872 7726 9763 4924 8878 8271 0202 1410 1434
5007 0216 5928 0096 7744 6505 7704 7080

2060 6810 5927 9553 6439 9982 2437 6760 2956 0858
7722 4952 8815 5099 5732 9530 6847 3386 0076 7052
9888 7739 7494 1976 1436

7841 5892 8646 6893 2878 0936 6288 2799 8770 1612
2731 5436 9606 1743 1570 2680 1774 5767 4981 2851
1559 6097 7396 7463 0803 0763 0597 1065 7954

3815 6119 4367 7407 4938 3412 8187 8169 1413 0934
0671 0602 1938 6728 2274 5702 2544 3658 8370 3145
3148 6563 6921 9029 3186 4786 2964 7666

5519 7235 4116 5420 5957 8804 6688 1123 4716 4036
1147 0538 5485 6733 0807 9216 8386 6813 9269 2772
7008 7344 4999 6637 1582 2299 9464

8300 kHz, 14-04, 0200 UTC, USB. New Star Broadcasting. Station 2

Unit IDs: 0119, 3617, 4859

Group Counts: 31, 31, 35

1937 0488 0898 9502 5130 3122 7300 9317 0773 0236
1891 3254 2810 1612 6163 6682 0040 8394 9824 0328
2604 6429 1480 4701 5839 4451 7864 3793 8350 5226
2528

0757 0337 5644 3754 3257 7633 3284 5752 9237 7047
2284 1175 4104 9792 9135 3940 4124 3132 6500 8212
5652 5365 2919 2536 0718 3762 8024 8370 8043 7612
5634

7053 2633 9320 1459 1045 5172 0433 8408 1747 1618
3133 2424 7462 0861 5352 3912 3754 2740 8587 2179
4105 0701 8298 8539 3393 9803 3135 4377 7575 2582
0691 4192 2362 0067 0707

8300//15890 kHz, 21-04, 0030 UTC, USB. New Star Broadcasting. Station 3

Unit IDs: 3723, 8132, 9042

Group Counts: 31, 35, 34

6119 4641 7694 9567 4660 7241 2978 5528 9141 5876
9468 8985 1935 0926 4308 7218 7096 3478 2231 1124
7131 9804 1589 1340 1328 4872 5994 9817 1884 8390
4164

6897 5884 3671 9193 5175 7937 7601 1956 8987 4901
2783 5293 3856 0318 2281 0839 3599 5701 2453 4905
3803 5548 3260 2164 2916 7110 9613 9082 0354 8770
3647 9419 3267 3474 2546

3777 1539 6682 8928 5032 2389 9453 8632 1777 9409
6496 9608 4944 0425 6516 5619 7953 9977 5713 4258
1120 1383 6259 0710 0602 2209 8160 6460 1006 5470
9034 2372 0879 9606

Note: has been simulcasting since Friday.

20025 kHz, 21-04, 0100 UTC, USB. New Star Broadcasting. Station 4

Unit IDs: 0869, 5802, 9984

Group Counts: 30, 32, 30

4103 1924 7852 9326 0647 2851 7071 3789 5949 0246
8651 8278 5787 9161 1964 1768 8122 8668 9499 0468
9543 4996 0507 9844 7377 0710 2617 7985 6436 0915

5451 0362 5815 0558 4203 9006 8743 6432 8583 6411
0002 6034 6120 6001 5085 1902 7531 1947 0874 8542
1358 3486 6343 3398 9067 7596 6661 0640 6702 4628
7389 5114

4904 0077 5199 2902 5384 7519 1515 9803 2316 1657
1032 5086 0862 3450 5504 3188 3201 4206 9165 4423
1657 9008 4076 9085 9715 7869 9602 3867 1456 9554

8169 kHz, 21-04, 0200 UTC, USB. New Star Broadcasting. Station 1

Unit IDs: 2942, 4833, 5977

Group Counts: 30, 31, 35

4932 3085 4526 9644 9770 5269 0731 6636 0803 6323
3020 1790 4818 3157 9730 7569 5509 0062 1075 3554
5691 7061 5103 3732 7039 6718 4306 8073 9724 0618

8918 5105 0405 0637 3653 4353 0109 6726 9205 5496
8119 4015 6100 8725 0321 1288 8090 4673 1158 2457
1492 8927 7655 7225 1538 9498 5897 6420 1745 6464
6534

2022 5357 0962 7873 5609 5958 3965 7360 7001 7338
6908 3674 7240 4320 0157 3862 2777 9432 1533 9395
7394 5554 1024 3825 8614 0788 3008 2300 3298 6432
1687 1632 4000 4696 7749

V13: 19052 kHz, 21-04, 0000 UTC, AM. New Star Broadcasting. Station 1

Unit IDs: 6016, 6122, 6695, 6749, 6983

Group Counts: 50, 52, 51, 50, 52

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817
1491 8742 2872 7726 9763 4924 8878 8271 0202 1410
1434 5007 0216 5928 0096 7744 6505 7704 7080 5574

6810 5927 9553 6439 9982 2437 6760 2956 0858 7722
4952 8815 5099 5732 9530 6847 3386 0076 7052 9888
7739 7494 1976 1436 9135 7841 5892 8646 6893 2878
0936 6288 2799 8770 1612 2731 5436 9606 1743 1570
2680 1774 5767 4981 2851 1559 6097 7396 7463 0803
0763 0597

7954 8058 3815 6119 4367 7407 4938 3412 8187 8169
1413 0934 0671 0602 1938 6728 2274 5702 2544 3658
8370 3145 3148 6563 6921 9029 3186 4786 2964 7666
7404 5519 7235 4116 5420 5957 8804 6688 1123 4716
4036 1147 0538 5485 6733 0807 9216 8386 6813 9269
2772

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817
1491 8742 2872 7726 9763 4924 8878 8271 0202 1410

1434 5007 0216 5928 0096 7744 6505 7704 7080 5574

6810 5927 9553 6439 9982 2437 6760 2956 0858 7722
4952 8815 5099 5732 9530 6847 3386 0076 7052 9888
7739 7494 1976 1436 9135 7841 5892 8646 6893 2878
0936 6288 2799 8770 1612 2731 5436 9606 1743 1570
2680 1774 5767 4981 2851 1559 6097 7396 7463 0803
0763 0597

Note: long transmission, 34 minutes long. The fourth and fifth messages are duplicates of the first and second. Usually the 5x V13a rotation has only 3 messages, but this one had 5.

15890 kHz, 27-04, 0005 UTC, USB. New Star Broadcasting. Station 3

Unit IDs: 5907, 7452, 8862

Group Counts: 32, 34, 33

6692 7160 8947 4182 6959 1659 0315 7321 3998 8633
8342 2229 2746 3686 7406 5525 9755 8442 6063 6394
8350 5313 8214 0066 7016 2752 8251 5870 1910 7927
1064 9034

1098 9340 1927 3482 6722 5761 9149 0785 8874 0971
5362 8251 4360 7782 4734 5302 1570 8685 6603 9261
9534 5814 8234 9481 3516 3474 4831 2135 0695 2548
6663 2937 0012 6971

7446 2587 7935 1782 2368 7839 5735 8899 4746 2148
6755 4644 1219 9389 7326 8563 9236 4036 7703 7283
2116 0310 1718 3919 1864 7108 3571 4149 5287 1942
1301 4422 9963

Note: five minutes late

20025 kHz, 27-04, 0100 UTC, USB. New Star Broadcasting. Station 4

Unit IDs: 1022, 3975, 5668

Group Counts: 35, 30, 35

8140 5525 1116 1102 6107 3362 8495 2079 5255 2409
6887 0001 9666 0607 6722 1623 4665 4814 2669 0125
0203 9326 6917 1684 5360 8809 6357 1807 6657 8013
7485 1892 3173 8988 8160

8905 2338 6230 1255 6051 8647 9284 7562 5907 2494
6388 5106 2794 5646 1251 1231 9933 5326 5023 3694
7993 0541 0772 2074 7957 4724 0054 5551 0846 7586

5115 4334 7259 2624 9441 2487 8974 7891 5563 7043
9748 0776 1220 4021 8944 6197 0424 0035 4990 1824
0648 0190 0105 3830 9605 8647 7035 0040 6672 5124
7434 6705 0169 8187 6790

Note, 4/27: V13 seems to be having some transmitter issues recently. Yesterday stations 1b and 2 abruptly cut off, briefly restarted but with glitchy audio, and then disappeared. Today, station 4 started out fairly strong but then faded gradually, to the point where the carrier is now barely visible on the waterfall display.

8169 kHz, 28-04, 0205 UTC, USB. New Star Broadcasting. Station 1

Unit IDs: 0050, 3848, 7666

Group Counts: 32, 35, 32

2021 2880 1626 5611 6131 4252 5567 2979 3511 4072
6901 9469 3781 5591 7878 2519 5492 0707 7258 3976
8586 1574 9513 0776 2181 6779 9579 9011 8504 5099
2121 0984

0313 0476 7740 8486 3479 5297 1516 1484 6544 7595
0099 7208 8826 1234 6540 3612 6716 7956 2438 7866
2461 7027 8095 5077 5763 9128 3485 7075 5945 4784
9285 0046 9520 8536 5010

8901 2357 2210 5978 5734 4665 8156 3771 9588 8102
5677 5601 1574 7539 2756 6297 1075 8022 1761 6615
8926 0857 1620 6269 9044 8262 3345 3908 1583 3761
8320 5222

Notes:

- Started five minutes late
- The carrier was up early as usual, but I heard people talking in Mandarin Chinese before the transmission started. Were these just ham radio operators/pirates talking over the frequency or is this background chatter? Probably the latter but still, I'm curious.
- Also, normal transmission today...no breakdowns or errors. Unit ID 7666 has been addressed in some V13a messages so I wonder if this group of agents is finally in the field, finished with their training.
- Station 2, 9276 USB at 8 PM: Odd transmission! Carrier dropped, proceeded to briefly transmit the number groups in pure USB without a carrier. Number groups were laggy, then the transmission cut off. No music, no preamble. Nothing on 11430 either.

8300 kHz, 29-04, 0200 UTC, USB. New Star Broadcasting. Station 2

Unit IDs: 0763, 1688, 8441

Group Counts: 34, 31, 30

8690 4563 7814 8841 2083 2946 6363 7550 5810 0625
9105 0050 3935 2359 7928 3128 8422 7520 9515 0269
6010 7693 8394 5665 8460 1081 4141 2335 5837 4098
4606 5052 5036 8499

9902 7315 8268 1821 2481 3994 4928 1112 5444 1374
4509 0302 3490 6848 6483 3955 6144 5579 5838 5081
9231 2723 4557 4677 8247 8041 9798 2966 4558 6064
4925

4911 5414 2937 0983 2925 8331 2397 7580 7211 6215
6824 6615 5368 2811 6391 2376 2095 1735 8094 5328
7002 5348 5631 2790 1939 4214 1292 2487 8406 3110

V13a: 19052 kHz, 01-05, 0100 UTC, AM. New Star Broadcasting. Station 1

Unit IDs: 7130, 7153, 7300, 7436

Group Counts: 40, 41, 46, 49

0313 8609 2025 2728 6715 3186 1617 3722 4256 0820
4747 0705 8407 0597 2932 9171 3678 7745 3278 6976
8440 7179 3066 1626 3294 4659 2466 8255 2790 4817
1491 8742 2872 7726 9763 4924 8878 8271 0202 1410

5007 0216 5928 0096 7744 6505 7704 7080 5574 2060
6810 5927 9553 6439 9982 2437 6760 2956 0858 7722
4952 8815 5099 5732 9530 6847 3386 0076 7052 9888
7739 7494 1976 1436 9135 7841 5892 8646 6893 2878
0936

2799 8770 1612 2731 5436 9606 1743 1570 2680 1774
5767 4981 2851 1559 6097 7396 7463 0803 0763 0597
1065 7954 8058 3815 6119 4367 7407 4938 3412 8187
8169 1413 0934 0671 0602 1938 6728 2274 5702 2544
3658 8370 3145 3148 6563 6921

3186 4786 2964 7666 7404 5519 7235 4116 5420 5957
8804 6688 1123 4716 4036 1147 0538 5485 6733 0807
9216 8386 6813 9269 2772 7008 7344 4999 6637 1582

2299 9464 3648 1266 9868 3062 0544 1019 8666 5543
6970 1006 6687 0165 3098 9042 5351 3270 4423

MORSE STATIONS

M01

5475 kHz, 01-04, 1800 UTC. Too many groups. All groups were correctly repeated

463 891 891 30 30 = =
57949 58901 47857 58749 58674 19048 58674 58675 58699 57949
67849 57101 58694 57483 48958 57483 48574 58905 57481 57938
57839 57656 58473 47381 47894 47382 57895 47634 57894 57463
57819 48712
891 891 30 30 000

5020 kHz, 01-04, 1959 UTC

463 817 817 30 30 = =
57483 48391 48573 49810 57883 49067 57494 57684 57488 58961
57583 26584 59103 27182 48904 56189 80947 38193 48901 47390
48193 48109 09834 44819 56381 57483 29184 38716 48736 28719
817 817 30 30 000

5475 kHz, 03-04, 1800 UTC

463 653 653 30 30 = =
57687 25436 11324 40989 55879 37658 20978 14321 69877 49870
54365 13249 68709 46534 26547 22546 10978 36544 37654 26789
10298 46532 48769 43540 43542 49709 30543 58769 13240 90987
= = 653 653 30 30 000

5475 kHz, 08-04, 1800 UTC

463 645 645 30 30 = =
87690 41321 22314 53431 75643 43656 34756 07894 76534 86755
47563 30042 42087 56001 56431 00321 54655 76094 75682 97802
67582 90801 57683 00091 67581 43002 32300 43043 67580 86793
= = 645 645 30 30 000

5475 kHz, 10-04, 1800 UTC

463 120 120 30 30 = =
82736 48290 18273 53847 28394 10293 48273 18273 47589 29384
01920 28374 27384 19283 28374 95069 18112 38490 23847 27364
84756 27384 29384 27364 55467 28374 19203 19283 28374 18293
= = 120 120 30 30 000

5020 kHz, 10-04, 2000 UTC

463 713 713 30 30 = =
82736 71829 30944 82938 91827 38490 18273 92837 48293 01928
19201 92837 18273 48273 84902 48273 18274 85762 38475 19283
91827 47284 28374 56478 39487 28374 48273 28374 18275 19283
= = 713 713 30 30 000

5475 kHz, 15-04, 1800 UTC

463 472 472 30 30 = =
54672 16514 10154 27601 37615 13251 68920 33719 01872 18716
16526 15427 11091 20917 27165 22917 39165 26514 15423 15427
51671 29917 20017 20187 10276 20176 17625 20174 30184 20713
= = 472 472 30 30 000

5475 kHz, 17-04, 1800 UTC

463 626 626 30 30
 40930 84390 10493 66914 85439 84320 58201 85433 91854 58438
 58439 83943 00194 81943 81955 95403 82943 85491 93023 86502
 48329 85403 85493 83923 85493 95403 95493 54300 95403 94920
 626 626 30 30 000

5020 kHz, 17-04, 2000 UTC

463 696 696 30 30
 00493 84393 86953 85939 85403 83924 85943 81930 94502 85491
 94530 95438 05943 81943 05943 82034 91054 95402 92035 95403
 06954 94320 85493 94320 02965 03954 02945 01960 94381 94035
 696 696 30 330 000

6260 kHz, 19-04, 1500 UTC

463 401 401 30 30 = =
 51091 15427 17615 20917 10271 30182 30184 39917 19927 15426
 43581 31451 53761 18726 39847 30984 10932 35427 42513 50950
 40984 50854 27154 39817 26514 30957 70711 33018 46371 60919
 = = 401 401 30 30 000

7115 kHz, 20-04, 0715 UTC, CW USB. Poor signal

475 217 217 50 50 = =
 28174 _____ 6_430 3__10 67430
 35445 50673 72703 25802 31800 54_67 20993 83826 039_7 80349
 15_41 23583 93910 67957 81004 45086 22_90 84921 10778 15092
 88358 21146 10973 50233 23696 87283 14109 60300 000_8 60077
 = = 217 217 50 50 000

5475 kHz, 22-04, 1800 UTC

463 676 676 30 30
 10045 85430 85437 10971 49100 86549 81944 83228 85410 85401
 58439 01954 06540 81044 86557 92201 85443 81931 95511 85S91
 50430 84392 10011 85493 01954 91038 01195 01864 85493 91345
 676 676 30 30 000

5020 kHz, 22-04, 2000 UTC

463 767 767 30 30
 66010 85491 86033 81990 85438 95439 01011 95402 22948 13370
 58439 01951 95422 95400 00195 84300 93193 94354 95014 81054
 55963 93320 95401 95019 86946 03348 58349 71940 95433 85930
 767 767 30 30 000

5020 kHz, 24-04, 2000 UTC. The operator completely lost it after group 12.

463 080 080 30 30 = =
 75684 34512 46571 78902 45632 45673 68793 56342 87695 65473
 35462 89040 890444035 4325092 250267840 67840 56780 54032 540
 65743 657378694 74123761764573 6457 78095 78934657 3465732143
 324322567 2 56472 562 32176733213 33213 76583 7653 067606
 080 080 30 30 000

7115 kHz, 26-04, 0715 UTC, CW USB

Unmodulated carrier

6510 kHz, 27-04, 0703 UTC. Different repeats in red

463 859 859 30 30 = =
 73647 82883 19203 92837 28734 **85734** 18273 49384 57364 28374 29394
 19283 29370 39497 23374 **23974** 19209 39404 29398 47263 47365 37466
 19293 48947 29394 **29397** 59200 39497 26647 29374 28374 **29374** 28374 57489
 = = 859 859 30 30 000

5475 kHz, 29-04, 1800 UTC

This time the operator already lost his way after group 10. Group 12 was not repeated

463 344 344 30 30 = =
65743 23421 12322 09898 47854 45060 54632 12343 65734 34340 343
76851 7681 10219 40343267070 543 54632 56731 557 78954 78
08975 954654 556457 645 65473 654 20204567007056473 5643 5633573
47586 47587 0091201245363 35363 56475 54675 07989 0798
= = 344 344 30 30 000

5020 kHz, 29-04, 2000 UTC. Again a mess after group 12. Amazing :-)

463 543 543 30 30 = =
54098 53401 23056 24301 12402 31800 56473 87956 09126 65490
64332 56076 54076 67440 6423109 23069580 6958 00234 346473
467356312 5132 32412 3242 5436 54 65403 65403 304 324553 543218
431 54305354362 5436277660 77660 54361 54612122 22 6584 683
543 543 30 30 000

M12

11519/12194/13407 kHz, 1100/1120/1140 UTC

11519/12194/13407 kHz, 01-04, 1100/1120/1140 UTC

289 289 289 1 9410 59 9410 59
24843 20225 27432 10762 71215 36251 61907 46223 49456 58885
29991 21301 06363 70788 36393 39839 44031 42341 55563 30355
87459 87208 12859 45221 56776 91493 43366 14117 00949 08903
78692 77477 45532 12357 76634 46853 71820 10638 33238 13734
42105 24833 97191 39392 98204 69844 47651 45301 19783 82863
48909 72662 83357 79700 61344 37633 07365 82210 53984 000 000

11519/12194/13407 kHz, 08-04, 1100/1120/1140 UTC

289 289 289 1 8840 57 8840 57
66868 54356 79501 87014 23203 97568 66115 85410 04877 32120
68600 03380 49417 82245 52833 09208 86613 07997 29045 17150
37088 47666 03394 73601 52062 80660 70611 84486 65666 62855
67049 61960 64007 32276 11888 05915 32958 88108 53574 72358
37565 05440 41573 64725 03418 50026 94005 52189 08321 50244
63664 31932 45990 10521 85894 19201 50961 000 000

11519/12194/13407 kHz, 15-04, 1100/1120/1140 UTC

289 289 289 1 9164 60 9164 60
00448 62916 31029 90265 60860 22103 13838 43549 99004 29725
61211 36671 05055 14229 89426 85021 87934 17112 86299 65723
69262 88192 10322 38203 49009 53403 58578 77776 56947 84190
61028 06306 10594 08419 92916 67951 80334 24376 77430 39971
39259 83938 32347 41478 64214 27946 12714 53943 29159 70827
10994 61382 48816 48034 82346 12254 52594 92824 41255 07457
000 000

11519/12194/13407 kHz, 22-04, 1100/1120/1140 UTC

289 289 289 1 3420 62 3420 62
75954 36951 19794 42925 95662 06924 56218 75467 01465 46682
30969 82579 85814 83078 18644 18807 05624 78008 07343 83924
90959 09998 52858 22200 79378 21715 36622 91100 32049 49153
94792 80334 11794 23580 91972 20898 43683 27589 22714 93382
10411 51849 18034 94734 14292 73908 49753 11093 92411 62154
05736 81435 77099 69683 80489 65956 84091 97593 63545 73947
70300 65117 000 000

11519/12194/13407 kHz, 29-04, 1100/1120/1140 UTC

289 289 289 1 8401 59 8401 59
14561 89383 95977 58612 22979 44761 98224 35114 87366 77887
57634 39108 37822 79569 96501 12086 20831 42694 49978 24225
77299 39280 08810 12244 19575 87422 92013 04622 87798 96947
29132 66890 52606 06565 05715 62479 04513 73836 51154 38406
59685 29934 22012 21637 04026 10455 59417 76906 52454 84098
27825 27566 47168 40169 69048 75280 80573 83732 39036 000 000

13564/12164/11164 kHz, 1900/1920/1940 UTC**13564/12164/11164 kHz, 02-06/04-04/09-04/11-04, 1900/1920/1940 UTC**

511 511 511 1 263 33 263 33
46495 66535 00618 56468 64239 81231 44209 68604 02547 08858
89070 58553 45624 02744 78683 98730 19015 91280 54471 67306
86255 29912 45752 43596 84693 96135 01488 60679 95066 81235
17392 11155 03452 000 000

13564/12164/11164 kHz, 23-04/25-04, 1900/1920/1940 UTC

511 511 511 1 9630 49 9630 49
06260 73197 38605 16288 26806 15138 45621 74191 11399 45823
24959 55572 77473 06024 48312 19069 87538 36367 48933 76534
42612 99465 65964 49972 15248 79459 55341 85069 74967 28869
92583 05376 54579 22253 39098 50660 45519 02895 97744 14707
50331 76917 72638 22671 33357 35557 13242 82910 65406 000 000

13564/12164/11164 kHz, 30-04, 1900/1920/1940 UTC

511 511 511 1 3360 108 3360 108
69989 55282 95898 96493 42968 50349 84268 34410 43648 98460
13643 41003 21688 91501 21855 98846 03532 44963 16653 34631
43283 71418 29828 72094 51715 52113 36320 80009 72402 80258
71740 63609 03942 86604 53802 50970 40327 94139 97717 65168
04823 80157 91096 81145 50022 94489 65567 81429 13107 26082
40511 33350 29202 04567 65431 79107 04505 91203 90616 74025
32314 97592 88996 48161 56284 64958 20051 46958 55233 77225
46069 30877 82028 28862 59994 71650 90813 76372 12663 35318
63570 69119 66177 65192 45284 45473 77978 99563 53318 23518
40079 35238 44072 51276 82060 82249 48425 77489 45963 97190
16187 00845 36485 15008 68431 10127 68483 95285 000 000

11435/10598/9327 kHz, 1800/1820/1840 UTC**11435/10598/9327 kHz, 03-04, 1800/1820/1840 UTC**

938 938 938 1 8580 78 8580 78
17137 82433 41950 86185 88773 88481 17605 82921 68165 12603
67455 92953 89911 92222 85152 37463 51719 63177 39781 84455
15690 04965 36188 29944 90881 76782 22427 80637 67624 53205
55750 11161 13659 46583 39794 56030 47825 57578 83065 87555
04761 48801 98483 68348 86932 41099 64802 94672 84717 33600
96219 67897 03388 55800 23899 12171 46245 12005 95302 11991
66053 36967 15296 14960 56852 56293 79293 43328 52427 29121
89636 94140 80111 52225 79694 66887 06481 67838 000 000

11435/10598/9327 kHz, 10-04, 1800/1820/1840 UTC

938 938 938 1 3215 83 3215 83
13908 62885 85013 35545 45016 86165 96627 87483 02515 84576
67445 79261 53453 72874 85132 44396 19978 96670 85440 63764
21605 76122 98016 92042 01785 45489 60224 33826 75752 27914
28049 45314 48496 62925 86811 01908 61116 85441 89885 44174
35113 30167 91315 75691 24696 53685 88029 30184 59719 27680
37444 34425 17021 62549 58444 37785 64868 92969 33759 99526
25941 62800 11731 74600 56526 22131 30765 90526 86061 83224
83278 34535 06784 41266 28650 91437 84805 22324 67346 48098
57458 30040 74105 000 000

11435/10598/9327 kHz, 24-04, 1800/1820/1840 UTC

938 938 938 1 6656 81 6656 81
80091 91643 78727 00760 03694 17540 67800 34200 71745 90503
40470 63040 03087 21724 53709 24497 16003 08566 53448 87559
28791 06252 28885 63536 11020 99289 41563 34155 25039 14650
44474 86637 84227 99821 37500 91660 02875 11484 32936 67261
19310 29444 06409 66123 92957 62621 27568 73940 23977 72292
38967 96913 66768 45202 12341 73838 53757 15191 89738 04403
75975 33644 09161 57094 91428 53831 78812 03265 84223 62048
21622 04519 75029 86186 68248 99345 99842 62761 70578 48398
71721 000 000

7575/8175/9175 kHz, 2100/2120/2140 UTC / 10431/11075/12138 kHz, 2100/2120/2140 UTC
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7575/8175/9175 kHz, 04-04/05-04, 2100/2120/2140 UTC

511 511 511 1 6002 67 6002 67
85454 38893 00724 50523 38286 35185 59087 97777 13480 97838
65705 12607 89421 55011 84154 04386 50276 91095 68306 27680
38585 82025 23826 58814 36833 83338 54001 76333 64096 41291
51837 94445 64548 11545 76198 06216 14449 36315 58298 43061
86741 71952 26490 42118 75354 75351 89754 99808 78230 65033
86741 09059 24628 89587 88833 39839 71227 92730 21350 33122
04429 22166 95159 77032 53078 85365 79320 000 000

7575/8175/9175 kHz, 11-04/12-04/18-04/19-04, 2100/2120/2140 UTC

511 511 511 1 3966 237 3956 237
23211 14480 31581 66690 16192 73554 54083 70400 95701 04837
35792 56188 06764 47055 77985 75430 61889 77455 02312 73221
18434 68837 51875 23947 61019 20709 57573 99413 41880 84571
36026 79171 79303 61379 47152 72130 44137 63444 71602 88207
90892 11671 55077 98091 16046 57633 35581 57900 69395 97288
69481 42417 83921 08247 75648 33518 34962 17679 30743 16947
39562 05427 71373 76799 85156 34829 53933 41627 98036 48727
10141 11841 10256 38951 74701 93114 89960 05441 89131 51124
19331 82567 08025 81105 08476 56581 02472 33756 64637 34409
37650 54859 71514 48939 99306 35619 92809 09818 26263 45307
22686 44435 46218 88743 30674 89615 62000 99620 38438 64211
35613 59040 32005 85628 75018 26852 51182 29245 19346 16887
58970 78041 78858 54610 83281 37042 96811 28202 76606 38405
00970 85688 22311 43262 83327 02029 34461 12552 17635 16784
62363 97553 37662 66335 60203 45415 52071 34234 62945 53663
65603 47892 88227 12388 38110 70991 37456 48342 33577 85346
79445 03494 18349 60358 54801 25196 74483 53134 99943 33131
88260 55907 52956 11994 42204 89318 89938 92641 09378 67417
44807 25888 63458 04550 22364 20858 45953 99187 87371 14893
40058 75567 92924 31156 88587 42499 20558 47610 92108 62665
47591 97033 33491 97638 96004 94742 17223 20513 74410 89034
25567 44011 62884 44770 52802 80841 97294 77001 96234 58009
91172 88860 27749 84118 92228 19689 28663 25284 45323 37787
84859 01004 46015 69136 71829 67919 72146 000 000

7575/8175/9175 kHz, 25-04, 2100/2120/2140 UTC**10431/11075/12138 kHz, 26-04, 2100/2120/2140 UTC**

511 511 511 1 1484 117 1484 117 (25-04)
401 401 401 1 1484 117 1484 117 (26-04)
66948 94998 18188 73318 60675 05419 87845 37876 94951 34310
54841 97219 22362 19501 39527 34514 28728 72130 06493 31203
10870 11839 49475 61310 55114 24156 42869 90904 71444 40868
66251 47634 71250 02000 09817 50388 31309 08482 77513 91496
36440 57194 23133 07376 10502 94395 92409 80904 76020 79154
47153 31830 79385 46158 18413 44044 91097 31892 27318 91239
08092 19040 33034 45909 18013 93880 50547 17224 83726 34681
78709 37724 20441 44734 83400 61012 97548 20486 27500 07763

96701 43213 84562 74736 90721 99095 32533 24120 17487 83463
90735 54339 64819 28337 39663 75414 13948 32072 46714 28008
78498 05843 76150 16041 50401 35800 96793 06417 80475 98188
15468 11709 91596 56197 75413 51100 80666 000 000

12217/11467/10348 kHz, 0800/0820/0840 UTC

12217/11467/10348 kHz, 07-04/11-04, 0800/0820/0840 UTC

243 243 243 1 4042 151 4042 151
01974 72269 04932 42238 87347 48154 41882 68413 80646 23191
80549 88591 97848 82229 05987 95255 89328 44347 37511 56019
43828 33598 62292 23868 78493 97273 91017 66116 33404 74229
59971 90223 65667 80669 51105 25253 85885 39391 30156 01524
36993 39883 31053 06191 21715 69351 14183 53597 95364 81962
97633 49882 29665 92571 85943 51595 28828 64278 39139 31360
58684 86676 94667 59173 30330 89804 80918 48712 70733 58561
84721 25959 99620 54613 40372 59557 32650 00066 56541 27780
14690 60385 40420 53769 05787 09886 56123 73404 93597 39812
39947 22549 42151 23670 93126 40390 77311 76545 83957 98793
12332 32549 32504 95957 80733 12761 17830 85155 77272 17029
78742 77083 20991 47031 13015 56713 40350 25183 07285 43923
06695 34126 79238 23902 12900 60180 25458 35187 40054 79352
40024 58997 44189 53758 76054 26931 86823 05078 39594 32925
66725 44332 34607 28477 67331 88622 42916 84501 33763 73634
05232 000 000

12217/11467/10348 kHz, 14-04/18-04, 0800/0820/0840 UTC

243 243 243 1 1070 103 1070 103
32187 15593 77087 53539 99321 08109 44942 76186 47345 40035
03209 72761 47675 69903 83838 31564 44491 64648 63725 40644
86451 10436 49452 81100 03533 27970 70503 91950 98620 01849
55536 92993 56505 86199 60719 48607 11247 80292 27511 98912
52397 06448 56257 18915 11009 89159 68991 81947 80259 67708
12073 31087 26612 13715 86287 96871 19037 02687 59697 89212
83051 64815 64789 10920 07306 45466 31475 85707 57705 54297
53120 78153 98695 98670 76062 87116 80357 18433 41250 11245
39059 32603 59746 91893 56917 02219 77769 29740 02414 90746
28776 49300 40823 64478 65699 76395 77321 15445 79886 33822
15508 11368 12832 000 000

12217/11467/10348 kHz, 21-04/25-04, 0800/0820/0840 UTC

243 243 243 1 6789 147 6789 147
97582 13673 29623 59796 12675 07903 87416 84648 38238 19017
10089 73745 65430 82867 57182 33068 27131 31287 21932 46206
95872 78527 33647 12664 34512 17630 06773 70449 31708 31682
72770 46336 31717 00591 21658 68661 80590 81860 26893 64532
56286 99215 34995 41866 84254 41641 92701 33115 76374 47094
64206 87070 66789 28201 10907 99924 65518 51784 14769 88168
10610 09301 07482 27207 43583 09359 46570 58135 96213 67610
28715 81564 88035 48144 78112 75374 35036 36554 20454 28573
31486 94414 74256 96535 57704 66596 13447 58415 30743 86587
21197 86260 98949 16385 10187 03276 76619 87896 81007 76560
87952 33258 45134 68939 12188 27219 47607 38490 22321 67528
74845 58960 21709 94354 99841 29736 94970 54800 73355 74954
29669 81233 64456 01652 30919 29120 94668 21585 27225 29826
42958 27782 90624 67564 41014 06811 16407 34659 03032 79655
14108 67922 78632 43212 71273 94389 05224 000 000

12217/11467/10348 kHz, 28-04, 0800/0820/0840 UTC

243 243 243 1 5373 127 5373 127
75052 89612 90650 77022 88641 54656 06931 75411 30414 75868
17651 38702 25317 61379 69733 20417 99012 68974 19059 97693
12481 59808 37195 88663 36705 75258 11879 58413 10078 96234

35074 35854 76161 45165 84467 51980 83597 06718 37876 72307
90112 69556 37212 04729 27260 51272 05304 77542 60897 99734
13003 08345 49656 77947 93099 91164 59566 91790 77306 93098
52012 26625 87515 48549 04455 75431 43485 12201 81389 50538
74975 56515 50321 17449 57642 52259 24399 05300 01546 57887
45103 66106 79832 92040 17074 54863 92312 83658 13607 00029
40569 65239 82555 26545 11825 85523 36486 26288 77062 21548
67171 25724 52673 40222 99842 02698 52069 01876 40436 03103
79261 22481 59262 27832 83427 11528 08040 25126 68599 79973
73318 89394 29089 58652 17628 48285 57010 000 000

12139/11139/10239 kHz, 2000/2020/2040 UTC

12139/11139/10239 kHz, 07-04/10-04/14-04/17-04, 2000/2020/2040 UTC

234 234 234 1 945 36 945 36
73294 70413 63514 48029 78839 73387 03086 22497 63422 69832
90591 01265 50908 65291 85416 62676 70191 58723 88778 97128
06710 69690 47397 80438 23152 13438 17068 14002 12174 58276
58290 82019 21544 18094 37208 26079 000 000

12139/11139/10239 kHz, 21-04/24-04/28-04, 2000/2020/2040 UTC

234 234 234 1 487 43 587 43
31051 77777 07407 24894 91424 25236 33251 89179 79702 42101
90686 26127 30806 89013 70644 08022 65055 38591 38310 94314
24502 69065 99930 07222 47010 58225 74778 29211 77848 98400
91740 37751 94225 94110 19027 66163 81629 95229 10070 16754
68036 49457 72552 000 000

12162/11566/10711 kHz, 1900/1920/1940 UTC

12162/11566/10711 kHz, 23-04, 1900/1920/1940 UTC. 1920z restart in callup

546 546 546 1 4888 59 4888 59
94597 83763 40354 19276 75963 94222 04224 50377 38108 47005
86551 56987 47876 82916 20760 43519 17467 30475 82829 94138
21474 20354 01598 01110 87972 10494 94250 70889 67929 53062
34636 67010 55621 36315 77314 31920 42945 38582 61239 28579
52463 10375 74706 27872 01096 81218 54246 90122 55595 82170
65481 21288 60735 45685 66379 74243 82165 39243 31302 000 000

12162/11566/10711 kHz, 26-04, 1900/1920/1940 UTC

546 546 546 1 2786 55 2786 55
61526 12298 91055 96240 70875 22045 10603 33919 91737 44965
08299 58680 61401 05804 95252 96710 41709 02341 89774 96372
79727 11934 88726 04216 79176 81957 32941 54744 18027 89242
03694 88088 60011 89420 94133 65785 04944 77742 00752 49818
31902 06399 27752 24466 46756 13239 38870 50872 42231 74225
57097 26030 53302 08215 40050 000 000

12162/11566/10711 kHz, 30-04, 1900/1920/1940 UTC

546 546 546 1 8877 59 8877 59
39475 77170 29264 22895 32559 55525 77896 35898 56529 28744
90648 37595 80682 38878 39610 39548 88661 04085 04917 32405
20144 26931 25252 33661 20010 39783 98271 77214 64439 41398
21023 13497 67761 83858 05812 46468 15953 04365 54378 06287
24825 44817 06168 66810 46861 13926 58429 92577 00422 88286
60739 30460 60868 80487 64203 22543 51918 95601 02885 000 000

14377/13461/12114 kHz, 1230/1250/1310 UTC

Another pair is a Mon 1230z then 1330z M12 317, two consecutive cycles with different message.
It seems to have first transmitted on 21-04 (PY)

14377/13461/12114 kHz, 28-04, 1230/1250/1310 UTC

317 317 317 1 5474 58 5474 58
 33948 35226 30584 97968 80362 95952 36521 60343 32788 44751
 98605 79700 23744 80990 35954 68657 17170 82014 98014 21846
 48139 27371 86841 32201 18251 79029 12047 72738 07014 91198
 76580 10706 87197 63129 44849 34813 27535 73026 19782 27870
 40450 99162 95269 93158 85461 27202 39461 08792 71482 13071
 31017 04319 34548 79209 90812 06576 48383 98381 000 000

14377/13461/12114 kHz, 1330/1350/1410 UTC

14377/13461/12114 kHz, 28-04, 1330/1350/1410 UTC

317 317 317 1 5346 123 5346 123
 50307 86740 68579 92351 46895 80694 71853 60504 82930 74653
 64900 99615 82930 20031 63829 28119 36108 21571 17233 46178
 79609 68011 06459 31706 77943 63219 34876 38705 06235 50607
 31757 03954 69584 99455 94314 19815 81736 81391 31481 83250
 64438 74886 90454 00341 22110 94684 11833 58257 81364 05057
 77872 63875 92087 42221 32860 82295 80280 36872 14408 83675
 45817 33148 54268 29860 42896 60946 30031 83473 25716 44013
 46381 54716 90088 33982 81739 04722 77556 06118 09596 83257
 51385 76618 57339 01178 72734 67880 11865 27363 66595 12019
 39534 44863 66983 47805 37432 31289 20617 60593 57444 61163
 64653 28358 32541 37350 58674 23155 73786 58105 60480 28137
 04738 74162 27276 31149 32289 69198 75808 53089 57125 75014
 49080 02667 16878 000 000

Test / exercise transmissions

The following M12 uses a known ID and frequency cycle for fixed frequency schedules. However, it wasn't part of an actual repeating weekly schedule.

11519/12194/13407 kHz, 07-04, 0710/0730/0750 UTC

289 289 289 1 3414 66 3414 66
 95975 15407 55288 52783 42299 87765 48699 50346 14889 24447
 40272 50707 97219 41386 24728 20296 87016 87530 69540 08887
 35301 11044 02863 23106 56191 00825 77402 03073 44374 18989
 61657 23341 37674 94713 21266 75641 60625 35951 59288 02252
 76459 19170 31647 24326 35874 46346 38546 80386 01077 80971
 80927 71165 52468 88943 27427 84931 12544 32181 96591 41474
 10362 45626 05971 95899 62789 16930 000 000

11519/12194/13407 kHz, 07-04, 0810/0830/0850 UTC

289 289 289 1 5255 63 5255 63
 15717 74617 82734 59936 07171 91174 90126 78737 33500 56222
 85868 14984 18176 75043 11843 82601 19018 93736 15823 18342
 26631 74645 22891 03118 51510 89704 73134 83728 07632 68974
 21472 07727 90174 12077 55673 78979 23890 18399 96834 58357
 67278 40961 38491 88146 53023 98208 56007 88141 95451 21625
 23127 57654 70495 06041 04426 41070 51726 79616 08426 17465
 18040 06398 71105 000 000

11519/12194/13407 kHz, 07-04, 0910/0930/0950 UTC

289 289 289 1 1237 60 1237 60
 07554 79950 74070 21630 12248 57542 52827 24894 52380 60320
 11096 33167 78947 55797 21419 59225 92470 37945 85599 97701
 46566 25226 45399 69579 62117 13242 91705 29385 14131 66558
 20780 61233 52670 95756 71560 41487 95342 17027 82866 95732
 34483 47380 72147 74776 99144 24259 27074 28346 88912 43900
 80566 97446 42602 30107 59266 82326 34551 04490 59512 99004
 000 000

Another known fixed frequency ID and cycle, but not part of an actual weekly schedule. You should be able to copy from these recordings.

12205/13559/14728 kHz, 14-04, 1230/1250/1310 UTC. (1250z restart during callup)

973 973 973 2 7190 60 7190 60
79183 49789 86774 96671 29752 53932 78707 79606 69354 39208
54821 93986 03735 33406 18910 44000 70785 46955 86417 26123
20011 82969 81176 86000 25777 89016 99260 39525 53721 47276
69730 09184 11433 87768 13078 80290 51342 01290 63589 79945
77482 70522 69639 69877 73444 50373 51983 23391 59703 35030
43870 16491 61617 75181 34966 96213 68611 00773 70894 40734
973 973 973 2 3974 29 3974 29
30405 17722 59746 31270 86289 58212 81724 87716 57326 30840
41710 14890 04456 77266 45951 06551 78259 63837 92652 68285
34720 76509 27518 55411 14028 25746 69220 38242 76438 000 000

12205/13559/14728 kHz, 14-04, 1330/1350/1410 UTC

973 973 973 2 2512 29 2512 29
07531 75065 36367 79050 28608 21340 66038 18663 18932 47178
41607 45720 63493 30815 77886 35284 93557 24374 30649 53412
34175 55139 10865 27555 98270 38514 5926 41536
973 973 973 2 1440 58 1440 58
76231 35594 86200 47811 76268 43737 14839 08081 14609 89610
64223 56108 65249 21215 55180 52959 30271 67936 00758 16159
11809 21502 81940 53430 40983 47251 17814 46087 70487 81344
47629 07053 75465 96035 10042 83003 99499 04521 77902 22937
39777 07243 91858 13467 55043 34321 21143 31563 74377 99396
49053 70237 62866 72757 37600 54728 53653 32769 000 000

M14

12211/10243 kHz, 01-04, 0500/0520 UTC

952 701 701 57 57 = =
57145 70055 71000 43064 91951 63642 05351 90149 20372 52235
88502 45433 87270 03505 50489 92448 52194 99519 98405 25438
55174 59566 99266 07378 25618 78303 39519 11304 07685 46432
97158 24628 00618 46077 87375 21128 37445 38060 67676 30306
50503 83259 13415 58784 97212 65229 99668 43460 44540 06290
50408 41065 35600 94245 40877 83853 86812
= = 701 701 57 57 00000

12211/10243 kHz, 02-04, 0500/0520 UTC

952 160 160 25 25 = =
01462 41814 92257 94661 16421 92971 34843 66465 94336 99595
65976 76168 32867 41453 16898 16963 57913 22732 56951 52636
48734 16364 08986 63313 10428
= = 160 160 25 25
952 843 843 27 27 = =
78981 92394 11427 53539 59548 95151 67695 61668 05878 14127
93639 18893 90361 32540 86678 93926 39644 74023 91999 22847
59767 72075 68572 32890 23903 52498 20095
= = 843 843 27 27 00000

12211/10243 kHz, 03-04, 0500/0520 UTC. The same messages as yesterday but in reverse order.

952 843 843 27 27 = =
78981 92394 11427 53539 59548 95151 67695 61668 05878 14127
93639 18893 90361 32540 86678 93926 39644 74023 91999 22847
59767 72075 68572 32890 23903 52498 20095
= = 843 843 27 27
952 160 160 25 25 = =
01462 41814 92257 94661 16421 92971 34843 66465 94336 99595
65976 76168 32867 41453 16898 16963 57913 22732 56951 52636

48734 16364 08986 63313 10428
= = 160 160 25 25 00000

12211/10243 kHz, 04-04, 0500/0520 UTC
952 952 952 00000

12211 kHz, 07-04, 0500 UTC
10243 kHz, 07-04, 0520 UTC. No transmission
12211/10243 kHz, 08-04, 0500/0520 UTC

952 437 437 58 58 = =
19786 92477 56526 49367 49835 24814 44556 00859 61948 48403
26370 72900 55279 71990 85502 57266 34187 19782 30075 04980
80906 13571 97153 16880 52148 74488 55261 24916 29316 92823
47220 75099 77015 39341 40507 48058 89562 16549 77323 78114
30159 73339 41558 56852 92432 31447 84827 32079 39034 97160
78792 38145 96963 56732 85925 18545 14331 78901
= = 437 437 58 58 00000

12211/10243 kHz, 09-04/10-04, 0500/0520 UTC
952 680 680 25 25 = =
39716 64992 71785 30992 94074 73946 66729 78346 02888 22664
55739 61352 61911 08746 95941 86233 80166 41822 33119 45054
08766 06436 09876 25329 32728
= = 680 680 25 25
952 714 714 32 32 = = (09-04)
714 714 32 32 00000 952 (10-04)
96803 68803 97513 16967 80487 88065 94418 86402 61895 14596
66218 49633 41683 44129 28864 47815 07646 00672 02558 57808
98356 23458 90283 03598 54019 89942 36520 68586 71707 60767
95813 57214
= = 714 714 32 32 00000

12211/10243 kHz, 11-04, 0500/0520 UTC
952 952 952 00000

12211/10243 kHz, 14-04/15-04, 0500/0520 UTC
952 803 803 55 55 = =
16640 08033 64601 60615 07346 03341 65164 59250 58035 36452
89490 76974 38262 52782 25373 31346 04071 45770 88610 19405
05557 68442 24590 44317 14886 37266 71285 49167 88465 14224
13388 06300 07534 78055 82217 35680 63681 20542 81139 50682
81570 28970 41143 54766 96056 40374 36293 37469 25886 78834
13726 43143 11168 11568 17890
= = 803 803 55 55 00000

12211/10243 kHz, 16-04/15-04, 0500/0524 UTC
12211/10243 kHz, 17-04/15-04, 0502/0522 UTC
952 164 164 27 27 = =
82883 70814 96882 16624 74088 38913 94125 68512 71570 64856
58202 69202 19027 34588 31113 65098 05498 53338 14189 13703
47754 26335 15370 38777 59902 75539 76668
= = 164 164 27 27
952 730 730 24 24 = =
25748 69248 58714 19713 87193 32887 06909 50417 88124 68237
05404 92941 57522 31806 69729 64841 57742 83295 13015 79888
73251 98044 51969 96702
= = 370 370 24 24 00000

12211/10243 kHz, 18-04, 0500/0520 UTC
952 952 952 00000

12211/10243 kHz, 21-04/22-04, 0500/0520 UTC

952 684 684 51 51 = =
 79488 99061 36174 38110 55360 33007 70916 97350 81446 24090
 85750 49382 34729 75171 59709 87982 52139 86112 43134 95109
 69706 43286 74026 66404 68843 44747 72620 27818 78195 03230
 25116 98023 04494 94161 92512 76333 90848 40888 05478 60778
 25927 54288 31181 26057 52437 68979 23049 16035 48377 43282
 89361
 = = 684 684 51 51 00000

12211/10243 kHz, 23-04/24-04, 0500/0520 UTC

12211 kHz, 24-04, 0500 UTC No second message. 952 804 804 26 26 off
10243 kHz, 24-04, 0520 UTC No closing nulls
 952 731 731 28 28 = =
 41885 99323 66827 27074 84059 21827 01289 41352 16115 90509
 32106 46829 72237 73682 55211 70721 94351 01735 03865 60939
 05100 78277 23157 53071 08080 24603 11021 69179
 = = 731 731 28 28
 952 804 804 26 26 = =
 33815 80593 91330 91360 58903 36917 70215 86492 09879 27267
 93755 35309 70387 16138 90741 88384 01377 23670 13908 44513
 47484 01356 37187 30762 06031 20726
 = = 804 804 26 26 00000

12211/10243 kHz, 25-04, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 28-04,/29-04 0500/0520 UTC. No closing nulls on 28-04

952 167 167 55 55 = =
 27945 01793 06127 89616 72925 27573 60411 92950 74059 80069
 79588 85092 80014 55916 88299 71646 05809 40143 36385 00230
 56588 68799 30715 13367 60865 38923 03832 85469 24183 20582
 92855 11095 39112 50633 27072 36644 12544 12922 47652 52721
 96200 34586 07944 89312 31305 53168 27756 80996 43355 34208
 00098 73179 72058 68246 05821
 = = 167 167 55 55 00000

12211/10243 kHz, 30-04, 0500/0520 UTC

952 952 952 000

Test / exercise traffic

9463 kHz, 18-04, 0655 UTC. Slow beeps

9463 kHz, 18-04, 0706 UTC. Two series of fast beeps

9463 kHz, 18-04, 0830 UTC

801 (R20m35s) 294 294 56 56 = =
 47100 28251 56530 05682 90916 43034 01026 41519 39151 40660
 27583 47186 35706 83587 38208 56326 41851 18379 41764 68500
 06629 21471 51569 80938 44388 80593 61220 11410 67879 54010
 09580 66896 50362 74792 7___6 37748 15148 92285 30720 22020
 76024 67979 34394 09671 76995 67960 17653 81309 04773 19129
 56672 01183 72465 21375 97658 09091
 = = 294 294 56 56 00000

M23

Notes:

All broadcasts lasted 20-25 minutes.

7688 kHz often ends with a P.

Start and end times may be +/- 2 minutes early or late

10222 kHz, 01 and 02 April, 0730 UTC

55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500

SALUT LA COMPAGNIE PORTE POINT SORTE ARBRE SUITE GARDE CHIEN SIGNE LIGNE MIEN PARMISACRE MONDE TIEDE GUIDE
METRE POUCE POULE REVER STADE TRAIN NOTRE VOTRE ENTRE CONTRE DESIR RIDES CONTER RENTE VOTER TENOR RIAN T DATES
VERRE LOUPE COUPE TERME DIUE DIETE DE MON CASER PRIOR MINE LINGE SINGE CHINE NICHE GRADE SITUE BARRE STORE PITON
OPTER YAWLS AWACS CROWN KAWIS SWAGS WIDGE WAGON WRAPS AWELE KAYAK POEME AIKAI EPODE GESTE HAIKU SLMNE
LAMBE KAIKU RANDO. (ended at 0755z)

Not reported on 3-12 April.

10222 kHz, 13-30 April, 0600 UTC

55555 05050 55005 05555 00000 55550 00005 50550 00555 55005 00550 50505 00550 55005 05505 55055 00550 50005 05550
55500 (repeated)

TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL ERGOL OXYDE HAKKA VOYEZ BAYEZ BUZZE DAYAK EPOXY GAZEZ GYOZA
KEKES VICHY HAKKA VOYEZ BAYEZ BUZZE DAYAK ERNEE PARIS TULLE NIMES DIJON ROUEN LILLE NANCY MELUN REIMS SEDAN BREST
BLEDS CHINE YEMEN ETATS NAURU MARO LIBAT CHILI PIONT GABON DONAX PINNE TARET ROUEN LILLE DACY MELUN REIMS JUNKY
KHOBZ FAXEZ NIMES DIJON JAZZY KAYAK JUNKY KHOBZ FAXEZ HAKKA VOYEZ BAYEZ JAZZY KAYAK JUNKY (ended at 0627z)

10755 kHz, 01 and 02 April, 1530 UTC**10755 kHz, 03-06 April, 1500 UTC**

55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500

SALUT LA COMPAGNIE etc. (ended at 1554z)

Not heard on 07-09 April

10755 kHz, 10-29 April, 1430 UTC

15081 76915 08176 91508 17691 50817 69150 81769 P (repeated) (ended at 1455z)

7668 kHz, 14- April, 1600 UTC

55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)

6937 kHz, 07-30, 1800 UTC

La meteo du jour est bon et les oiseaux chantent
Les arbres sont en fleurs
La soupe aux choux
Le pere noel est une ordure
Le diner de con
Les Bronzes Font Du Ski
Bienvenu a Galaswinga bip bip
Les hommes viennent de mars e les femmes de venus
LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z

M89 - Chinese Military**11348 kHz, 04-04, 1730 UTC, i.p.**

FE NR 133/EX 0138 RMKS 8573 TO 8639 = ABC 1/DEF 2 + K

R GA K (then receiving msg)

R QSL 0140

HR MSG GA K

R MSG NR 134 CK 13 980 04 05 0140 RMKS 8573 TO 8639 = 645 NN4 NA3 A45 DAU NT7 3N4 D?N U5T N3D 7NT TUT ATT + QSL? K

RU MSG GA K (then receiving msg)

R QSL 0159 HR WK/430 K

R NIL SK GN BK

- no callsigns given, but FE could probably be a callsign
- The first msg seems to be a drill (EX) with dummy text (ABC1 / DEF 2)
- Date/time group (MM DD hhmm) on the second msg seems to be a GMT+8 or +9, so definitely China or Korea.
- cut numbers and 4-number indicators after RMKS lead to chinese mil.

4735 kHz, 01-04, 0700 UTC

VVV VVV PROMRCh = 01 04 =

1000 1090 1130 1290 1790
1200 1220 1260 1420 1930
1400 1250 1280 1420 1910
1600 1200 1240 1380 1850
1800 1140 1180 1330 1810
2000 0870 0900 1000 1330
2200 0720 0740 0810 1050
0000 0650 0660 0720 0930
0200 0600 0610 0670 0850
0400 0580 0590 0650 0840
0600 0470 0480 0540 0720
0800 0850 0890 1050 1510

= ABV

VVV VVV PROMRCh = 01 04 =

1000 1090 1130 1290 1790
1200 1220 1260 1420 1930
1400 1250 1280 1420 1910
1600 1200 1240 1380 1850
1800 1140 1180 1330 1810
2000 0870 0900 1000 1330
2200 0720 0740 0810 1050
0000 0650 0660 0720 0930
0200 0600 0610 0670 0850
0400 0580 0590 0650 0840
0600 0470 0480 0540 0720
0800 0850 0890 1050 1510

= AR

4735 kHz, 02-04, 0700 UTC

VVV VVV PROMRCh = 02 04 =

1000 1090 1130 1290 1790
1200 1220 1260 1420 1930
1400 1240 1280 1430 1910
1600 1200 1230 1380 1850
1800 1140 1180 1330 1820
2000 0880 0910 1000 1330
2200 0720 0740 0820 1060
0000 0650 0670 0730 0940
0200 0600 0610 0670 0850
0400 0580 0590 0650 0840
0600 0470 0480 0540 0730
0800 0850 0900 1050 1510

= ABV

VVV VVV PROMRCh = 02 04 =

1000 1090 1130 1290 1790
1200 1220 1260 1420 1930
1400 1240 1280 1430 1910
1600 1200 1230 1380 1850
1800 1140 1180 1330 1820
2000 0880 0910 1000 1330
2200 0720 0740 0820 1060
0000 0650 0670 0730 0940
0200 0600 0610 0670 0850
0400 0580 0590 0650 0840
0600 0470 0480 0540 0730
0800 0850 0900 1050 1510

= AR

4735 kHz, 03-04, 0700 UTC

VVV VVV PROMRCh = 03 04 =

1000 1090 1140 1300 1790
1200 1230 1260 1410 1930
1400 1250 1280 1430 1910
1600 1200 1230 1380 1840
1800 1140 1180 1330 1810
2000 0890 0910 1010 1340
2200 0730 0750 0820 1070
0000 0660 0670 0730 0940
0200 0610 0620 0670 0870
0400 0590 0600 0660 0850
0600 0480 0500 0550 0740
0800 0860 0900 1060 1520

= ABV

VVV VVV PROMRCh = 03 04 =

1000 1090 1140 1300 1790
1200 1230 1260 1410 1930
1400 1250 1280 1430 1910
1600 1200 1230 1380 1840
1800 1140 1180 1330 1810
2000 0890 0910 1010 1340
2200 0730 0750 0820 1070
0000 0660 0670 0730 0940
0200 0610 0620 0670 0870
0400 0590 0600 0660 0850
0600 0480 0500 0550 0740
0800 0860 0900 1060 1520

= AR

4735 kHz, 05-04, 0700 UTC

VVV VVV PROMRCh = 05 04 =

1000 1080 1120 1250 1770
1200 1220 1260 1400 1900
1400 1240 1280 1420 1890
1600 1190 1220 1360 1820
1800 1130 1170 1320 1800
2000 0890 0910 1020 1350
2200 0730 0750 0820 1070
0000 0670 0680 0740 0940
0200 0620 0640 0690 0880
0400 0600 0610 0670 0860
0600 0500 0510 0570 0770
0800 0850 0900 1050 1500

= ABV

VVV VVV PROMRCh = 05 04 =

1000 1080 1120 1250 1770
1200 1220 1260 1400 1900
1400 1240 1280 1420 1890
1600 1190 1220 1360 1820
1800 1130 1170 1320 1800
2000 0890 0910 1020 1350
2200 0730 0750 0820 1070
0000 0670 0680 0740 0940
0200 0620 0640 0690 0880
0400 0600 0610 0670 0860
0600 0500 0510 0570 0770
0800 0850 0900 1050 1500

= AR

4735 kHz, 06-04, 0659 UTC

VVV VVV PROMRCh = 06 04 =

1000 1070 1110 1260 1740
1200 1210 1250 1391 1890
1400 1240 1270 1410 1880
1600 1180 1210 1350 1810
1800 1120 1160 1310 1780
2000 0890 0910 1010 1350
2200 0730 0750 0820 1070
0000 0670 0680 0740 0940
0200 0630 0640 0690 0880
0400 0600 0610 0670 0860
0600 0500 0520 0580 0770
0800 0850 0890 1040 1480

= ABV

VVV VVV PROMRCh = 06 04 =

1000 1070 1110 1260 1740
1200 1210 1250 1391 1890
1400 1240 1270 1410 1880
1600 1180 1210 1350 1810
1800 1120 1160 1310 1780
2000 0890 0910 1010 1350
2200 0730 0750 0820 1070
0000 0670 0680 0740 0940
0200 0630 0640 0690 0880
0400 0600 0610 0670 0860
0600 0500 0520 0580 0770
0800 0850 0890 1040 1480

= AR

4735 kHz, 07-04, 0700 UTC

VVV VVV PROMRCh = 07 04 =

1000 1050 1080 1240 1710
1200 1180 1220 1370 1850
1400 1210 1250 1380 1860
1600 1160 1190 1330 1790
1800 1110 1150 1290 1760
2000 0880 0910 1010 1350
2200 0720 0740 0810 1060
0000 0660 0670 0730 0940
0200 0620 0630 0690 0880
0400 0590 0600 0660 0850
0600 0500 0510 0580 0780
0800 0830 0880 1020 1470

= ABV

VVV VVV PROMRCh = 07 04 =

1000 1050 1080 1240 1710
1200 1180 1220 1370 1850
1400 1210 1250 1380 1860
1600 1160 1190 1330 1790
1800 1110 1150 1290 1760
2000 0880 0910 1010 1350
2200 0720 0740 0810 1060
0000 0660 0670 0730 0940
0200 0620 0630 0690 0880
0400 0590 0600 0660 0850
0600 0500 0510 0580 0780
0800 0830 0880 1020 1470

= AR

4735 kHz, 08-04, 0700 UTC

VVV VVV PROMRCh = 08 04 =

1000 1030 1070 1220 1680
1200 1170 1210 1350 1840
1400 1200 1240 1380 1840
1600 1150 1180 1320 1770
1800 1100 1140 1280 1750
2000 0880 0900 1000 1350
2200 0720 0740 0810 1060
0000 0660 0670 0730 0940
0200 0610 0620 0680 0870
0400 0580 0590 0650 0840
0600 0490 0510 0570 0780
0800 0820 0860 1010 1440

= ABV

VVV VVV PROMRCh = 08 04 =

1000 1030 1070 1220 1680
1200 1170 1210 1350 1840
1400 1200 1240 1380 1840
1600 1150 1180 1320 1770
1800 1100 1140 1280 1750
2000 0880 0900 1000 1350
2200 0720 0740 0810 1060
0000 0660 0670 0730 0940
0200 0610 0620 0680 0870
0400 0580 0590 0650 0840
0600 0490 0510 0570 0780
0800 0820 0860 1010 1440

= AR

4735 kHz, 09-04, 0700 UTC

VVV VVV PROMRCh = 09 04 =

1000 1010 1050 1200 1660
1200 1150 1190 1330 1800
1400 1190 1220 1360 1820
1600 1130 1170 1300 1760
1800 1080 1120 1260 1730
2000 0870 0900 1000 1340
2200 0710 0730 0800 1060
0000 0650 0670 0720 0930
0200 0610 0630 0680 0870
0400 0570 0590 0640 0830
0600 0490 0510 0580 0780
0800 0800 0850 0990 1420

= ABV

VVV VVV PROMRCh = 09 04 =

1000 1010 1050 1200 1660
1200 1150 1190 1330 1800
1400 1190 1220 1360 1820
1600 1130 1170 1300 1760
1800 1080 1120 1260 1730
2000 0870 0900 1000 1340
2200 0710 0730 0800 1060
0000 0650 0670 0720 0930
0200 0610 0630 0680 0870
0400 0570 0590 0640 0830
0600 0490 0510 0580 0780
0800 0800 0850 0990 1420

= AR

4735 kHz, 10-04, 0700 UTC

VVV VVV PROMRCh = 10 04 =
 1000 1010 1050 1190 1650
 1200 1150 1190 1330 1790
 1400 1180 1210 1350 1800
 1600 1110 1150 1290 1740
 1800 1070 1110 1250 1720
 2000 0870 0900 1000 1350
 2200 0710 0730 0800 1050
 0000 0650 0660 0720 0920
 0200 0600 0620 0670 0860
 0400 0570 0580 0640 0830
 0600 0490 0510 0590 0810
 0800 0800 0840 0980 1410

= ABV

VVV VVV PROMRCh = 10 04 =
 1000 1010 1050 1190 1650
 1200 1150 1190 1330 1790
 1400 1180 1210 1350 1800
 1600 1110 1150 1290 1740
 1800 1070 1110 1250 1720
 2000 0870 0900 1000 1350
 2200 0710 0730 0800 1050
 0000 0650 0660 0720 0920
 0200 0600 0620 0670 0860
 0400 0570 0580 0640 0830
 0600 0490 0510 0590 0810
 0800 0800 0840 0980 1410

= AR

4735 kHz, 11-04, 0700 UTC

VVV VVV PROMRCh = 11 04 =
 1000 0990 1030 1170 1620
 1200 1130 1170 1300 1770
 1400 1160 1200 1340 1790
 1600 1100 1130 1270 1720
 1800 1060 1090 1240 1700
 2000 0870 0890 1000 1340
 2200 0700 0720 0790 1040
 0000 0640 0660 0710 0910
 0200 0600 0620 0670 0850
 0400 0560 0580 0630 0820
 0600 0490 0510 0590 0820
 0800 0780 0830 0970 1390

= ABV

VVV VVV PROMRCh = 11 04 =
 1000 0990 1030 1170 1620
 1200 1130 1170 1300 1770
 1400 1160 1200 1340 1790
 1600 1100 1130 1270 1720
 1800 1060 1090 1240 1700
 2000 0870 0890 1000 1340
 2200 0700 0720 0790 1040
 0000 0640 0660 0710 0910
 0200 0600 0620 0670 0850
 0400 0560 0580 0630 0820
 0600 0490 0510 0590 0820
 0800 0780 0830 0970 1390

= AR

4735 kHz, 12-04, 0700 UTC

VVV VVV PROMRCh = 12 04 =
 1000 0980 1020 1160 1610
 1200 1120 1150 1290 1750
 1400 1160 1190 1330 1770
 1600 1090 1130 1260 1710
 1800 1050 1080 1230 1690
 2000 0870 0900 1000 1350
 220E 0700 0720 0790 1040
 0000 0640 0650 0710 0910
 0200 0590 0600 0660 0840
 0400 0560 0570 0630 0810
 0600 0500 0520 0600 0830
 0800 0780 0820 0960 1380

= ABV

VVV VVV PROMRCh = 12 04 =
 1000 0980 1020 1160 1610
 1200 1120 1150 1290 1750
 1400 1160 1190 1330 1770
 1600 1090 1130 1260 1710
 1800 1050 1080 1230 1690
 2000 0870 0900 1000 1350
 220E 0700 0720 0790 1040
 0000 0640 0650 0710 0910
 0200 0590 0600 0660 0840
 0400 0560 0570 0630 0810
 0600 0500 0520 0600 0830
 0800 0780 0820 0960 1380

= AR

4735 kHz, 13-04, 0700 UTC

VVV VVV PROMRCh = 13 04 =
 1000 0980 1020 1150 1590
 1200 1120 1200 1290 1750
 1400 1160 1200 1330 1780
 1600 1090 1130 1260 1710
 1800 1050 1090 1230 1690
 2000 0870 0900 1010 1350
 2200 0710 0720 0800 1050
 0000 0640 0650 0710 0910
 0200 0600 0610 0660 0850
 0400 0600 0570 0630 0810
 0600 0500 0520 0600 0830
 0800 0770 0820 0950 1360

= ABV

VVV VVV PROMRCh = 13 04 =
 1000 0980 1020 1150 1590
 1200 1120 1200 1290 1750
 1400 1160 1200 1330 1780
 1600 1090 1130 1260 1710
 1800 1050 1090 1230 1690
 2000 0870 0900 1010 1350
 2200 0710 0720 0800 1050
 0000 0640 0650 0710 0910
 0200 0600 0610 0660 0850
 0400 0600 0570 0630 0810
 0600 0500 0520 0600 0830
 0800 0770 0820 0950 1360

= AR

4735 kHz, 14-04, 0700 UTC

VVV VVV PROMRCh = 14 04 =
 1000 0970 1000 1140 1580
 1200 1120 1150 1280 1730
 1400 1150 1190 1320 1760
 1600 1080 1110 1250 1690
 1800 1040 1070 1250 1670
 2000 0880 0640 0710 1390
 2200 0710 0670 0800 1050
 0000 0640 0660 0710 0950
 0200 0600 0610 0670 0850
 0400 0560 0570 0630 0810
 0600 0500 0520 0840 0800
 0800 0770 0810 0740 1350

= ABV

VVV VVV PROMRCh = 14 04 =
 1000 0970 1000 1140 1580
 1200 1120 1150 1280 1730
 1400 1150 1190 1320 1760
 1600 1080 1110 1250 1690
 1800 1040 1070 1250 1670
 2000 0880 0640 0710 1390
 2200 0710 0670 0800 1050
 0000 0640 0660 0710 0950
 0200 0600 0610 0670 0850
 0400 0560 0570 0630 0810
 0600 0500 0520 0840 0800
 0800 0770 0810 0740 1350

= AR

4735 kHz, 15-04, 0700 UTC

VVV VVV PROMRCh = 15 04 =
 1000 0960 1000 1130 1570
 1200 1110 1150 1280 1720
 1400 1150 1180 1310 1760
 1600 1070 1110 1240 1680
 1800 1030 1070 1210 1660
 2000 0880 0900 1010 1370
 2200 0700 0720 0800 1050
 0000 0640 0650 0710 0910
 0200 0600 0610 0670 0850
 0400 0550 0570 0620 0810
 0600 0530 0600 0840 0800
 0800 0760 0800 0930 1330

= ABV

VVV VVV PROMRCh = 15 04 =
 1000 096 1000 1130 1570
 1200 1110 1150 1280 1720
 1400 1150 1180 1310 1760
 1600 1070 1110 1240 1680
 1800 1030 1070 1210 1660
 2000 0880 0900 1010 1370
 2200 0700 0720 0800 1050
 0000 0640 0650 0710 0910
 0200 0600 0610 0670 0850
 0400 0550 0570 0620 0810
 0600 0500 0530 0600 0840
 0800 0760 0800 0930 1330

= AR

4735 kHz, 17-04, 0700 UTC

VVV VVV PROMRCh = 17 04 =
 1000 0930 0960 1100 1520
 1200 1080 1120 1250 1680
 1400 1130 1160 1290 1730
 1600 1050 1080 1220 1650
 1800 1010 1050 1190 1630
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0630 0640 0700 0890
 0200 0590 0600 0660 0850
 0400 0540 0560 0610 0800
 0600 0510 0530 0610 0870
 0800 0740 0770 0910 1300

= ABV

VVV VVV PROMRCh = 17 04 =
 1000 0930 0960 1100 1520
 2100 1080 1120 1250 1680
 1400 1130 1160 1290 1730
 1600 1050 1080 1220 1650
 1800 1010 1050 1190 1630
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0630 0640 0700 0890
 0200 0590 0600 0660 0850
 0400 0540 0560 0610 0800
 0600 0510 0530 0610 0870
 0800 0740 0770 0910 1300

= AR

4735 kHz, 18-04, 0700 UTC

VVV VVV PROMRCh = 18 04 =
 1000 0910 0940 1080 1490
 1200 1060 1090 1220 1650
 1400 1110 1140 1270 1690
 1600 1040 1070 1200 1640
 1800 1000 1040 1180 1620
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0630 0640 0700 0900
 0200 0600 0610 0660 0850
 0400 0540 0560 0610 0800
 0600 0510 0540 0620 0870
 0800 0730 0770 0900 1290

= ABV

VVV VVV PROMRCh = 18 04 =
 1000 0910 0940 1080 1490
 1200 1060 1090 1220 1650
 1400 1110 1140 1270 1690
 1600 1040 1070 1200 1640
 1800 1000 1040 1180 1620
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0630 0640 0700 0900
 0200 0600 0610 0660 0850
 0400 0540 0560 0610 0800
 0600 0510 0540 0620 0870
 0800 0730 0770 0900 1290

= AR

4735 kHz, 19-04, 0700 UTC

VVV VVV PROMRCh = 19 04 =
 1000 0900 0930 1060 1470
 1200 1040 1070 1200 1620
 1400 1090 1120 1240 1670
 1600 1020 1050 1190 1610
 1800 0980 1020 1160 1600
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0620 0640 0690 0890
 0200 0600 0610 0660 0850
 0400 0540 0550 0600 0790
 0600 0510 0540 0630 0880
 0800 0720 0760 0890 1470
 = ABV
 VVV VVV PROMRCh = 19 04 =
 1000 0900 0930 1060 1470
 1200 1040 1070 1200 1620
 1400 1090 1120 1240 1670
 1600 1020 1050 1190 1610
 1800 0980 1020 1160 1600
 2000 0870 0900 1010 1370
 2200 0690 0710 0790 1040
 0000 0620 0640 0690 0890
 0200 0600 0610 0660 0850
 0400 0540 0550 0600 0790
 0600 0510 0540 0630 0880
 0800 0720 0760 0890 1470
 = AR

4735 kHz, 21-04, 0700 UTC

VVV VVV PROMRCh = 21 04 =
 1000 0870 0910 1030 1430
 1200 1010 1040 1170 1570
 1400 1070 1100 1220 1640
 1600 1000 1030 1160 1590
 1800 0960 1000 1130 1570
 2000 0870 0900 1010 1380
 2200 0690 0710 0780 1040
 0000 0630 0640 0700 0890
 0200 0590 0610 0660 0850
 0400 0530 0540 0600 0780
 0600 0520 0550 0630 0900
 0800 0710 0750 0870 1250
 = ABV
 VVV VVV PROMRCh = 21 04 =
 1000 0870 0910 1030 1430
 1200 1010 1040 1170 1570
 1400 1070 1100 1220 1640
 1600 1000 1030 1160 1590
 1800 0960 1000 1130 1570
 2000 0870 0900 1010 1380
 2200 0690 0710 0780 1040
 0000 0630 0640 0700 0890
 0200 0590 0610 0660 0850
 0400 0530 0540 0600 0780
 0600 0520 0550 0630 0900
 0800 0710 0750 0870 1250
 = AR

4735 kHz, 22-04, 0700 UTC

VVV VVV PROMRCh = 22 04 =
 1000 0870 0900 1030 1430
 1200 1010 1040 1160 1570
 1400 1060 1090 1220 1640
 1600 1000 1020 1160 1590
 1800 0960 0990 1130 1560
 2000 0870 0900 1010 1380
 2200 0690 0710 0780 1040
 0000 0620 0630 0690 0890
 0200 0590 0600 0650 0840
 0400 0520 0540 0590 0770
 0600 0520 0550 0640 0900
 0800 0710 0740 0870 1250
 = ABV
 VVV VVV PROMRCh = 22 04 =
 1000 0870 0900 1030 1430
 1200 1010 1040 1160 1570
 1400 1060 1090 1220 1640
 1600 1000 1020 1160 1590
 1800 0960 0990 1130 1560
 2000 0870 0900 1010 1380
 2200 0690 0710 0780 1040
 0000 0620 0630 0690 0890
 0200 0590 0600 0650 0840
 0400 0520 0540 0590 0770
 0600 0520 0550 0640 0900
 0800 0710 0740 0870 1250
 = AR

4735 kHz, 24-04, 0659 UTC

VVV VVV PROMRCh = 24 04 =
 1000 0860 0890 1020 1440
 1200 0990 1020 1150 1560
 1400 1050 1080 1210 1630
 1600 0980 1020 1150 1580
 1800 0950 0990 1130 1560
 2000 0870 0910 1020 1380
 2200 0690 0710 0790 1040
 0000 0620 0630 0690 0890
 0200 0590 0600 0650 0840
 0400 0520 0530 0590 0770
 0600 0510 0540 0630 0890
 0800 0700 0740 0870 1240
 = ABV
 VVV VVV PROMRCh = 24 04 =
 1000 0860 0890 1020 1440
 1200 0990 1020 1150 1560
 1400 1050 1080 1210 1630
 1600 0980 1020 1150 1580
 1800 0950 0990 1130 1560
 2000 0870 0910 1020 1380
 2200 0690 0710 0790 1040
 0000 0620 0630 0690 0890
 0200 0590 0600 0650 0840
 0400 0520 0530 0590 0770
 0600 0510 0540 0630 0890
 0800 0700 0740 0870 1240
 = AR

4735 kHz, 25-04, 0700 UTC

VVV VVV PROMRCh = 25 04 =
 1000 0860 0890 1020 1440
 1200 0980 1020 1140 1550
 1400 1050 1080 1210 1620
 1600 0980 1020 1150 1580
 1800 0960 0990 1130 1560
 2000 0880 0910 1020 1380
 2200 0700 0710 0790 1040
 0000 0620 0640 0690 0890
 0200 0590 0600 0660 0840
 0400 0520 0530 0590 0760
 0600 0520 0540 0630 0900
 0800 0700 0740 0860 1250
 = ABV
 VVV VVV PROMRCh = 25 04 =
 1000 0860 0890 1020 1440
 1200 0980 1020 1140 1550
 1400 1050 1080 1210 1620
 1600 0980 1020 1150 1580
 1800 0960 0990 1130 1560
 2000 0880 0910 1020 1380
 2200 0700 0710 0790 1040
 0000 0620 0640 0690 0890
 0200 0590 0600 0660 0840
 0400 0520 0530 0590 0760
 0600 0520 0540 0630 0900
 0800 0700 0740 0860 1250
 = AR

4735 kHz, 26-04, 0703 UTC

VVV VVV PROMRCh = 26 04 =
 1000 0870 0910 1030 1440
 1200 1000 1040 1160 1570
 1400 1060 1100 1220 1640
 1600 1000 1030 1160 1590
 1800 0970 1010 1140 1570
 2000 0890 0920 1030 1390
 2200 0700 0720 0800 1060
 0000 0630 0640 0700 0900
 0200 0590 0600 0660 0850
 0400 0520 0540 0590 0770
 0600 0530 0550 0640 0900
 0800 0720 0750 0880 1260
 = ABV
 VVV VVV PROMRCh = 26 04 =
 1000 0870 0910 1030 1440
 1200 1000 1040 1160 1570
 1400 1060 1100 1220 1640
 1600 1000 1030 1160 1590
 1800 0970 1010 1140 1570
 2000 0890 0920 1030 1390
 2200 0700 0720 0800 1060
 0000 0630 0640 0700 0900
 0200 0590 0600 0660 0850
 0400 059 EEEEE =
 0400 0520 0540 0590 0770
 0600 0530 0550 0640 0900
 0800 0720 0750 0880 1260
 = AR

4735 kHz, 27-04, 0700 UTC

VVV VVV PROMRCh = 27 04 =
 1000 0880 0920 1040 1450
 1200 1010 1040 1170 1580
 1400 1070 1100 1230 1640
 1600 1000 1040 1170 1590
 1800 0980 1020 1150 1580
 2000 0900 0930 1030 1390
 2200 0710 0730 0800 1060
 0000 0640 0650 0710 0910
 0200 0600 0610 0660 0850
 0400 0530 0550 0600 0780
 0600 0530 0560 0650 0910
 0800 0730 0770 0890 1270
 = ABV
 VVV VVV PROMRCh = 27 04 =
 1000 0880 0920 1040 1450
 1200 1010 1040 1170 1580
 1400 1070 1100 1230 1640
 1600 1000 1040 1170 1590
 1800 0980 1020 1150 1580
 2000 0900 0930 1030 1390
 2200 0710 0730 0800 1060
 0000 0640 0650 0710 0910
 0200 0600 0610 0660 0850
 0400 0530 0550 0600 0780
 0600 0530 0560 0650 0910
 0800 0730 0770 0890 1270
 = AR

4735 kHz, 28-04, 0700 UTC

VVV VVV PROMRCh = 28 04 =
 1000 0900 0930 1060 1460
 1200 1030 1060 1180 1600
 1400 1080 1120 1240 1660
 1600 1020 1050 1180 1610
 1800 0990 1030 1160 1600
 2000 0910 0940 1040 1400
 2200 0720 0740 0810 1070
 0000 0640 0660 0710 0910
 0200 0600 0620 0670 0900
 0400 0540 0560 0610 0790
 0600 0540 0570 0660 0920
 0800 0740 0780 0910 1290
 = ABV
 VVV VVV PROMRCh = 28 04 =
 1000 0900 0930 1060 1460
 1200 1030 1060 1180 1600
 1400 1080 1120 1240 1660
 1600 1020 1050 1180 1610
 1800 0990 1030 1160 1600
 2000 0910 0940 1040 1400
 2200 0720 0740 0810 1070
 0000 0640 0660 0710 0910
 0200 0600 0620 0670 0900
 0400 0540 0560 0610 0790
 0600 0540 0570 0660 0920
 0800 0740 0780 0910 1290
 = AR

Not monitored on 4, 16, 20, 23, 29, 30 April.
 UM04 recording 18-04, 0700 UTC



DIGITAL MODES

F01

F01 – FSK 200/500 Mon-Fri schedule

No transmissions on 1, 2, 3 and 4 April.

10177/8076/6974 kHz, 07-04, 1015/1025/1035 UTC

61141 43526 34034 77741 68451 89533 90938 94557 03742 90938
94557 03742 70769 64678 19327 99266 63322 84795 20251 73447
21381 07660 81297 31743 75349 75784 42552 87155 28100 67873
94180 48797 91569 50518 78697 51958 30870 67504 81213 28127
08098 27645 12365 38379 43055 77086 13609 18583 33038 67031
39562 09868 98900 52802 97085 72776 49576 85191 45785 08545
82241 80038 89638 35955 60313 76962 14410 97187 36465 23194
50562 91115 12851 43441 66341 57478 55721 81730 20725 60372
06628 26157 30917 44494 57385 52481 34091 62574 81006 47509
48049 97446 35766 98201 60497 27173 84608 57438 01627 06680
97067 22378 79672 64337 25899 86360 84161 36907 75602 50276
86512 91322 05027 04348 92691 06707 31248 16255 27606 15090
26904 86554 55922 24260 28164 57312 69002 71168 95547 84901
92630 79349 94746 12896 95240 18776 89663 06001 01311 91595
64843 30955 39623 92184 19482 95339 81074 14952 00213 80244
45731 08339 64843 27706 83797 98445 94236 68881 60208 30723
94533 03873 97517 03172 56880 69151 56777 89478 66875 53523
61087 75533 80902 48558 91516 57768 11554 44434 10068 76735
89315 07132 89383 84397 92712 97903 53878 68525 64100 20983
61984 82679 53284 10432 84195 55185 56164 92107 56603 75553
40578 81648 14603 81776 76550 04441 36471 96948 13115 48494
51485 88629 68905 86162 92290 49406 28713 25652 96182 22086
63180 78251 85012 17944 13828 52224 78384 01492 10601 09291
19852 40172 14130 44661 20779 42441 99872 76521 51571 32663
26350 55945 34954 36264 54644 33146 20994 73568 11359 41016
48540 85773 12218 81888 22785 41484 88504 28455 63617 97254
83510 74791 04472 10569 11200 98408 46353 28706 94263 19279
96717 01912 23757 66774 47911 94335 07507 90452 74845 91149
99473 75625 56593 25301 27265 49652 51609 72331 59969 89894
81238 86698 83521 69261 01222 78040 75769 00301 65873 50813
98431 63756 14624 55756 48146 32532 35610 26601 33778 27014
86010 00476 72197 62669 73795 45439 19685 75869 30603 43578
81187 38874 30406 03115 64578 99914 33672 97943 72134 09311
61699 58066 46399 17558 30813 59320 12639 56331 01115 85879
85058 38327 19468 63938 28979 36902 61414 90024 96156 31424
01698 02381 75439 29287 68090 68851 25936 00528 58208 89702
84899 85970 24006 38833 67498 64852 53624 91791 00672 92846
05300 14054 58260 46450 73007 07989 89583 34640 88529 41954
58669 63765 89637 09958 36315 66590 09074 95323 12163 31440
64027 36800 18987 92380 50778 20542 86375 66368 74206 46419
65991 48317 66855 42068 95605 00003 77233 23144 94085 93760
32033 23190 04526 96904 02411 00000 +++++

10177/8076/6974 kHz, 08-04, 1015/1025/1035 UTC

07655 45929 05004 01315 24697 61417 22403 30992 00842 52710
90612 25177 09625 46742 15557 44816 87385 58293 11542 38466
37047 77630 83208 70807 64410 20751 20470 16095 39161 03151
11132 39988 97769 23069 00868 18193 30470 65149 55251 65369
19511 60441 03522 72715 20867 63687 68783 77692 06586 33834
14308 14312 09975 28709 60642 17423 40807 49783 53212 79447
62729 97979 85084 82990 50067 03065 00000

14592 68340 71567 36014 04329 23891 74570 31879 60845 57172
18194 54739 92129 64835 44266 81590 97405 89173 70082 03076
25750 29927 41198 56232 83621 00727 07381 72979 21021 78597
63888 55256 50938 19967 25261 12760 81793 41620 23832 24217
67553 90026 50122 08134 05210 47484 77326 13948 34311 48525
37060 69532 18229 05003 38565 45990 11853 63314 48570 25655
45397 42186 73966 84274 79011 24467 14516 23272 07875 01359
77762 13052 22468 92524 73334 33281 53708 90521 28836 21070
57640 02981 94499 63012 19353 90976 28805 92003 80837 27033
82233 74783 22446 21188 21360 01138 52658 88567 60463 10702
85832 56900 92845 18293 12637 04105 00000 +++++ +++++ +++++

10177/8076/6974 kHz, 09-04, 1015/1025/1035 UTC. Very weak signal

53187 27173 37059 05454 63059 58386 42141 74655 21701 83006
63628 80563 76317 45052 36531 47813 73013 64660 84657 86041
87980 37813 37989 70524 99421 39674 68124 13137 11126 86231
15226 90840 63641 33920 04911 23879 93991 21932 78513 20857
28985 58687 85173 32916 29159 04499 09173 84171 01023 38143
30961 70603 68981 98625 45318 44601 62435 45231 85076 27334
47262 82512 23849 16140 31518 32570 56201 79126 07187 87515
78695 54166 13887 71790 20259 94464 35501 69044 95302 27912
65649 93243 78030 22378 02942 08712 21381 74165 61964 28777
69027 61780 10916 47730 33894 32237 71845 85757 41602 12056
44429 51562 37732 75946 66010 52341 79318 48951 _____

_____ 82749 07183 06801 _____

_____ 36626 21863 61100 19166 26919 17964 85411
62771 70345 37732 75946 66010 99797 53570 09148 58233 72759
81425 82701 92595 53609 11256 61602 45121 52723 21181 42675
06058 26974 98766 54736 49448 71353 17871 36594 91862 56392
44504 60061 76236 91069 70117 _____ 95777 99853
65574 55864 15659 81010 _____

_____ 77495 00658 87883 44997 79923 48655 24262 94275
90501 58711 41506 21078 56241 90065 31791 41138 05092 03936
_____ 70421 52673 47866 99569

22348 43142 _____
_____ 70421 52673 47866 34257 97051 83921 01116 18254 69377
25116 94298 66984 60976 92278 23115 11940 69319 47834 50070
92478 00359 42315 06692 35655 11413 47547 53268 23647 92047
79796 88288 09711 87631 36282 24778 68620 _____
92507 86663 40868 15786 80543 80391 47890 11251 95967 71053
88678 36254 38683 35155 71871 15942 07217 85602 49622 65356
23129 37003 04018 15226 16510 97018 34382 42216 45951 09940
_____ 64812 48916 38602 75954 47794 59640 43455
17234 43448 05191 12592 94743 14640 01924 12923 43699 15741
88176 _____

_____ 34894 78552 06496 56783
97730 58242 _____ 37439 09976
44308 _____ 22928 95443 16890 00131 29682 35825
_____ 68448 80012 73494 96563
02046 64357 96426 05403 00000 +++++ +++++ +++++

10177/8076/6974 kHz, 01-04, 1015/1025/1035 UTC. Again very weak

32355 27491 14667 41635 25017 75098 68634 63294 53255 20196
34642 00924 04287 14271 22159 37012 41208 01100 66545 05754
96981 30437 16251 22807 91962 89377 08393 56939 60889 81091
81155 85764 00297 05599 96437 02739 72261 22294 71195 67617
25448 98882 40912 17563 19366 76443 03638 81072 62792 05288
18025 61938 02294 31302 53815 85402 21777 37472 18198 23716
39015 70267 06488 _____ 50558 40535 77679 _____

_____ 24111 69396 03686 03531 15174 12676 07464 97115
45562 21748 62601 42295 21927 71055 22243 84443 44462 03145
82008 06091 00000

65517 65775 03596 49615 60494 24897 52330 18582 30140 88884
09556 83629 12389 97187 96422 45016 56064 06591 35212 80928
60958 35376 88886 38953 03954 37653 51504 81950 37110 37559
37969 30496 68662 78007 46517 69108 62872 63676 92404 08421
19657 02920 36221 20502 19946 78291 55274 89512 47697 00379
31467 44873 24511 24610 54131 69150 17773 35750 61226 97824
08282 29754 67364 53148 28274 47671 52084 79272 05810 41289
06817 70831 76427 75200 63981 12165 48039 94990 56649 07079
00000 +++++ +++++

10177/8076/6974 kHz, 11-04, 1015/1025/1035 UTC

00000 +++++ +++++

10177/8076/6974 kHz, 14-04, 1015/1025/1035 UTC

65125 01205 72881 82604 87642 18616 45678 83395 16175 86804
27448 62295 90523 05737 97780 91056 13464 84369 51931 73270
14550 03467 33625 02151 07780 47641 14058 49274 04040 11338
40521 01465 64270 08418 03094 88002 04297 40047 92842 65369
87252 00578 49960 51680 64538 26100 25277 28030 51260 15357
03602 48902 47070 77714 62307 28866 38356 87866 63606 97716
42722 51967 03963 41264 81682 14872 69067 69961 92524 63190
67809 82538 15265 03813 43704 16854 15640 22623 87186 05139
30071 53074 97228 75820 43540 09309 65707 69115 36312 63519
82964 58586 60439 72240 87994 95828 31997 81250 11707 20510
49969 63766 86676 02909 77739 71642 21851 11173 48114 04230
65627 20468 77813 24611 05750 06210 02386 77874 79458 88561
67453 91138 92334 20397 37256 59989 69264 35897 06413 51045
85982 01990 25837 75307 54610 39798 78766 12015 61636 08307
67807 87656 81778 67413 98967 39866 16163 62567 73593 20853
28256 98176 24152 20078 75982 91974 54803 10856 63482 27522
72690 50563 60925 47053 20898 89160 65835 51837 48995 65688
04354 02238 82129 97450 95880 34683 74576 91551 29532 37704
58715 33494 25856 54249 25341 32504 82235 02457 96268 28293
25420 32067 75155 88922 19626 58668 87482 54480 03641 42968
45643 06236 55365 07260 00053 65972 07239 06298 62243 55193
60979 94741 10862 68861 75079 58377 16516 43393 23484 01296
46408 23569 48914 06210 34692 58055 59242 10113 29486 78239
40377 62446 52484 40040 84089 57980 32112 33397 54219 61592
96137 89127 39694 67115 34710 37833 67807 57473 69734 00538
76180 58252 91536 15763 66863 01941 48750 32704 _____
_____ 25220 37458 04840 79860 06300 24012 09319 90403 47709
_4251 75210 86988 34505 08925 58574 86496 09097 84985 43760
83617 84539 80840 63404 19533 31767 51227 66562 91341 70426
40157 77168 13135 18017 45360 10029 64671 77022 72678 36506
88588 64706 03827 17113 22088 15288 25983 43176 74023 09154
96620 54774 83347 08814 42041 27139 19837 06286 13029 42688
13039 11589 46078 90900 20382 37039 03622 63206 70382 57030
91697 35088 41889 48001 78500 52570 65291 38252 62244 65294
56651 22319 61783 73366 20672 19589 28422 80157 83453 81837
02353 68246 40978 79374 62163 40702 34248 20504 40844 94878
87020 83958 06742 20921 67088 69016 32888 42164 57016 92982
03145 39614 45307 90718 28606 27698 73896 95906 72687 73472
02948 08750 08349 76476 78859 79776 55879 51415 16440 64447
74689 80862 31175 28253 07544 30174 82533 06988 00669 41793
14243 51882 48184 51133 02478 14291 34282 91241 47893 49618
71600 78409 72447 45166 59225 95930 06942 01601 08758 18193
80226 22712 11886 42288 45998 93173 47901 19330 08136 48963
54585 02664 30514 70160 10925 55161 42214 50788 05071 82785
74095 25390 85990 86607 87644 08445 00000 +++++ +++++ +++++

10177/8076/6974 kHz, 15-04, 1015/1025/1035 UTC

69682 59208 09997 83774 96994 35434 67881 49054 63118 66936
41022 49083 15640 95222 29915 26056 39130 86203 54313 04799
62984 88090 36506 77880 30672 96433 20228 68926 60109 74715
67405 85109 49830 03961 99926 94730 10645 59774 78611 90831
27474 40271 36583 26792 81046 93310 09214 34820 84149 16495
27846 63309 12114 28352 69471 93963 32229 34151 79546 24656
61768 34781 10154 28945 09315 52136 40665 28185 79076 09069
00000

10909 48582 58830 66468 46642 82346 84693 88708 61037 63166
97360 16669 32844 26659 59272 59301 65583 59245 21647 43286
20570 82030 37640 47554 33241 51187 58011 50391 92475 73280
01506 50094 87578 58977 17132 45087 52639 63562 80509 84454
62935 87716 91504 24818 63076 36983 65306 54501 31574 63362
34155 70917 11520 37473 01905 22115 62074 24719 18598 48419
10436 63897 67253 85118 08987 71681 80046 12108 27306 21426
26074 61459 33727 69724 37879 18826 46143 29154 68949 79639
56725 10652 99342 46026 60268 83962 31658 75389 40826 29580
44519 16579 96336 80640 95763 94605 05934 78186 92534 29824
69604 88251 70445 02525 74914 54198 49021 98877 70458 82747
55588 99155 50744 87136 34824 94186 82185 35842 86117 40960
24903 80308 95968 10123 00000 +++++ +++++

10177/8076/6974 kHz, 16-04, 1015/1025/1035 UTC

35404 81993 07598 29002 78434 40238 60269 29569 17222 63446
70234 86805 29442 99549 49884 01320 86370 21111 17962 21491
78216 95749 70454 91678 23929 78936 63301 59522 76420 83833
80354 09499 59127 07875 85037 14946 94864 20778 79123 25725
12900 43656 17089 33721 45185 73944 49463 83354 47691 35808
93625 19309 07774 60724 55477 88645 23512 27933 50432 39507
65958 19437 97162 83583 60239 69232 82530 14539 46433 11480
21156 99585 06178 57274 58043 86383 65936 54726 87720 92466
12859 12024 88311 69367 84181 88173 93992 58647 16098 81110
54263 81996 63037 67842 53471 32615 23298 76355 89030 60043
31955 93924 31763 65639 07005 41546 16814 50886 59652 69179
38568 85724 04713 51455 48004 89087 32038 88585 75931 38828
24918 42116 30544 53237 36395 60240 42727 11320 59422 72348
57552 04036 51810 57503 95405 33688 01892 16528 31183 03631
45852 02397 64982 65508 72654 88612 82748 16200 77501 80258
30284 61648 49764 97414 49086 89789 06332 85631 47436 19732
06298 33126 05173 19405 07938 99421 35607 08848 53911 85087
52992 91334 95616 97288 19003 79511 92648 90817 66655 08749
48294 89301 25106 54879 66992 16281 93764 98527 44710 90829
39168 03203 28168 67416 13033 99348 03843 24696 14953 91544
02702 32906 48149 31026 31590 54574 41730 20740 67222 58203
37895 45092 73702 49639 67513 41603 29519 50801 62516 56634
74956 80460 78555 52392 15842 16760 26336 57383 44590 46155
35091 77518 64460 28478 96620 10048 27980 32786 63327 27510
25465 23717 98701 23899 84570 03007 03685 40216 66824 35875
67341 11608 72056 16964 15294 03275 86689 55509 54345 27333
36808 84443 36732 57822 31948 23108 92437 86051 10554 48269
03021 83452 23027 53119 15372 64150 13311 98953 18863 64426
84951 89216 34300 81258 62562 20592 88139 37138 84645 90830
70390 63336 88688 68013 99648 18821 74489 50916 43694 87005
56645 75182 69098 17511 42125 44980 18264 05143 93894 94839
37351 23256 66504 11350 03518 53709 24587 69407 24913 80580
80204 62702 11860 39843 09984 33134 42676 42190 37971 28834
72545 11187 95145 45494 58912 03940 11391 53368 01800 06481
61856 55838 22517 21038 70651 85611 29182 87395 87803 99286
42496 05514 70423 43914 80207 51617 12011 23883 23712 04922
44841 56603 15211 27188 06514 48989 58876 62308 06594 74429
24463 48085 54293 54935 76789 57418 33122 78152 79542 11063

33452 03920 46834 29162 78924 40069 40948 13735 07648 92152
39718 79315 94110 16781 21969 73912 22768 33261 44465 57495
49207 73223 08800 30188 09865 72929 41659 27356 66209 37935
36910 23773 94332 11413 00000 +++++ +++++

10177/8076/6974 kHz, 171-04, 1015/1025/1035 UTC

19008 74729 94150 97588 82800 55727 13495 87083 99102 06267
35873 69922 80843 16667 16168 12007 89928 33438 46881 50531
60742 45564 33250 88310 65544 80241 15724 24932 63954 19036
94494 98146 03701 70388 35766 33971 64827 59404 64446 28898
64549 20860 72959 12690 64935 06381 00849 65167 50610 41707
64872 85442 68668 94997 44284 37028 47976 42110 50956 17265
40064 39784 39078 24505 48778 42680 34073 21486 40898 25196
85448 18328 54893 94014 73266 23603 50015 02300 22898 36913
62906 01504 07787 81393 63918 91696 44868 99613 30323 56382
12366 61282 78604 92706 44634 56209 23028 12097 00000

66381 00234 48754 50573 95313 20132 89177 81079 08449 82089
46690 38817 05733 00076 37313 09731 21070 39476 42332 47093
30071 99620 39732 22450 73544 74944 28705 41896 07626 49432
20663 94876 16525 04063 95179 27687 48794 41925 44331 58879
63073 60694 53835 78734 94251 27164 94451 00021 75964 33514
22080 52197 80385 40007 09970 36268 61239 33790 61517 82464
10970 58508 77051 77951 68013 94399 73066 56737 35098 93564
77331 68977 94527 00108 48322 71866 31363 09816 92398 09289
00459 49088 77179 72439 98283 77787 64542 58575 25464 13089
00000 +++++

10177/8076/6974 kHz, 18-04, 1015/1025/1035 UTC. Wrong 1000Hz shift at 1015z

00000 +++++ +++++

10177/8076/6974 kHz, 21-04, 1015/1025/1035 UTC

34100 57879 91949 64839 00414 51024 78344 64133 53306 96725
08637 02564 70437 57957 46116 13643 79697 50818 29449 56599
81692 75674 22162 32531 74272 58561 13388 56909 58796 01273
62078 49370 32830 63585 01855 26722 98950 26042 48691 10123
44359 06746 78620 82341 70972 30589 67640 56069 80696 74364
11027 39195 45563 36196 64213 07991 17416 02717 72454 24146
56835 12445 81434 56592 85984 38782 46031 94041 95081 41082
79400 59190 57156 57226 09593 60521 30805 36134 35864 42637
55621 33655 01893 21070 69985 20278 28072 12500 05907 74094
70068 96322 40605 57453 95848 68497 09521 00742 98343 73622
10426 41737 85938 26170 53355 93955 17997 56818 36008 42453
77581 44817 49334 90493 98569 22327 42984 05544 89358 61672
05307 38012 20327 81434 37586 11188 67271 32337 27203 05802
27968 48849 49414 87661 54083 77454 52426 51783 65588 17509
05464 81465 39899 35645 14507 45748 92890 39636 35397 83682
94008 22683 38994 48853 82643 14039 08067 12600 77964 96926
70612 49358 99395 79671 99289 52576 39926 31000 31653 54624
59435 15433 90870 49156 90237 89716 11626 39348 72001 46225
00875 60442 58270 14269 88157 50062 61741 55257 45151 64706
30505 12647 79140 65873 72428 02601 30109 24260 69870 56325
26129 15453 51918 49991 76736 05572 16327 83193 08990 50283
18360 91887 75878 55635 68702 06730 91798 74146 07657 92772
74755 34583 47781 31436 99992 28869 02181 30710 94741 04557
40634 74513 28763 36310 40729 47149 80384 74821 26213 93797
82708 96609 09738 02979 79683 03137 82179 21931 46731 42676
15740 40830 55606 53372 72992 06799 88184 50930 39080 53636
28867 09372 19246 58208 90275 08296 68874 59433 51948 45075
48253 00812 16707 35443 19218 82414 14378 50883 25885 33295
07581 66283 26651 40238 79244 16275 69652 93801 06548 83705
28866 37578 50979 68674 43045 31615 19198 11573 24671 65933
74375 68568 31116 85084 02719 62963 15198 09677 64860 60874

97316 65811 86787 44662 26365 58367 70023 82556 21588 49072
25722 17906 12591 25297 62385 26494 19687 70503 81876 15368
41749 72300 63423 61596 43783 29026 40295 14412 61384 40808
98844 09172 64285 96029 54603 66571 46169 89150 85108 75545
32935 30802 24164 83302 26620 36115 47203 40925 27138 02205
02470 77970 99052 10749 67665 04518 75549 16607 36794 64092
16799 08411 66854 85900 64913 52063 39090 09830 62661 53084
14479 82631 28147 98743 88138 48733 02629 65920 72364 84122
13676 05614 62945 46730 20837 40056 68485 41756 36021 33363
07391 25372 35775 21656 02228 14405 00000 +++++

10177/8076/6974 kHz, 22-04, 1015/1025/1035 UTC

89063 63180 10381 89274 22150 23293 61605 84933 29273 58816
17576 50600 56891 44405 38361 95576 71309 85570 96506 82572
60959 73871 71760 95062 41919 58224 26355 07469 77580 87011
34300 25364 48420 00674 63116 87882 32803 79487 31442 49526
84758 76197 90964 83553 19670 88203 06103 74133 43809 48985
29873 89461 88655 43453 99399 53016 35937 76910 99477 55153
44339 52318 67643 72213 13797 35551 39195 85336 48339 13319
55577 16182 03390 73466 84593 21711 28490 62308 25870 15261
41366 98717 00005 06056 94274 49625 44858 74379 18583 96643
67394 24565 58499 15093 00000

81244 52460 86313 04829 70521 23965 38082 78165 25993 26819
87563 40196 02120 01670 54661 48798 55151 39104 14070 61225
65183 83727 84393 23388 01296 53561 93899 42430 03180 41968
58889 22291 77720 94280 35593 66948 33947 76328 31542 81025
04807 77036 87348 22442 29189 12312 64833 86806 92639 22367
02445 28242 50212 79701 23887 46309 79873 49912 10926 93749
39924 72519 76275 84697 28851 54005 97531 08085 71069 90239
98072 75896 76969 60498 85872 60983 50727 60243 86158 04115
44299 64859 28862 94946 81050 41539 76777 56619 97448 51499
05398 16091 00000 +++++ +++++

10177/8076/6974 kHz, 23-04, 1015/1025/1035 UTC

No transmissions

10177/8076/6974 kHz, 24-04, 1015/1025/1035 UTC

94051 10934 67293 59950 58011 49661 76983 95582 06756 19639
24829 58111 03375 60013 00104 36552 81201 53733 73967 43805
65265 03565 23311 54642 55957 19147 09784 19563 92081 01019
43673 02975 35493 32557 87346 19123 44506 15760 77920 64216
28260 11819 73864 68173 99222 72409 55213 14448 66036 72646
32082 01344 33872 81630 41169 43284 04503 31540 34934 35448
93261 71182 93137 30235 05087 14968 11438 98974 36833 23223
46718 77329 98044 74793 23845 17075 00000

35598 13535 65575 07295 97248 47557 95667 13431 85089 66616
60461 35966 45979 88972 46058 54412 97460 77312 15769 09717
41228 99851 84377 19327 57166 94269 06561 63045 51389 01660
15407 19375 56725 62696 71970 57043 09074 93185 11801 11390
48086 81202 99377 00296 15597 73003 26397 59366 50244 39883
14842 01026 01725 43187 10771 27233 13109 39652 79778 50495
44666 94266 40038 02872 37622 92835 93892 37652 41311 71443
43910 53396 52124 04999 04355 95030 37728 22046 44000 11674
44969 18081 00000 +++++ +++++

10177/8076/6974 kHz, 25-04, 1015/1025/1035 UTC. Wrong 1000Hz shift at 1015 and 1025z

00000 +++++ +++++

10177/8076/6974 kHz, 28-04, 1015/1025/1035 UTC

13684 31657 51305 19877 46445 83118 37009 41071 69184 47739
50209 34783 62533 69587 90704 72350 19879 74051 52803 37109
91851 59098 25341 43231 74293 03814 78124 86698 56857 80155
64489 76839 74435 78886 94657 21868 28623 85584 59584 66866
71371 67701 09979 07648 68048 58588 20193 28931 82071 49434
91655 40276 48317 25050 75545 08202 27488 04441 19396 07943
58613 72093 67303 43261 51897 10935 68446 07775 89074 72879
73584 86219 23481 47917 24240 19089 97012 17668 64237 79091
16168 04355 28295 32871 54365 51117 87360 86403 72711 94612
55363 37532 76415 15842 87084 84066 49034 80131 21829 60888
31744 02218 52584 04492 39807 97358 25355 68410 33447 04432
98361 37957 85290 91926 15787 17715 11594 82794 75765 90225
59416 59083 97294 69302 66940 32288 15763 96412 39126 90372
61774 53557 05885 57374 02966 91101 54956 26562 53497 93979
56685 53047 80904 34713 22875 16825 65007 86687 66915 92141
88548 96120 57365 84167 64269 36153 82178 18881 28083 91516
65764 97111 53066 47196 06067 48690 63927 79534 23848 47622
56652 73226 41373 74244 53016 12611 32668 35286 44645 20736
12553 77777 06315 44603 56633 57744 83178 10043 69431 49631
81600 94660 42852 07371 18300 92280 72169 13067 07478 67337
21715 74200 90617 22641 57470 55316 38657 28961 88729 55112
81201 89866 86043 64885 42479 40252 67609 69255 88727 01996
71314 75112 16684 45186 54606 79730 37883 28350 89384 13969
38438 16117 44100 21519 19005 97777 70245 60116 44604 55139
35433 35665 58990 53149 70236 05213 43270 51706 20993 09703
23435 62096 25754 22461 56516 96500 55555 24333 50035 84004
88219 41422 94442 51547 06862 06362 13238 93253 40285 29063
60443 76581 87462 87870 20139 58717 93292 77065 87726 11670
67799 71652 37627 79493 65991 95375 07089 16072 70540 02888
50789 76907 44492 12017 45939 63360 46169 47076 52552 42749
23483 79136 58576 92788 29817 74216 64585 43763 28687 85314
87702 16907 79352 49234 89449 82396 20577 74118 57208 85429
94715 28662 93990 13787 79330 68905 96186 05353 18503 63572
23995 19004 71047 03879 94213 17321 17805 08753 50082 34547
95206 61395 87864 28245 47292 38137 44854 38080 13377 15512
78494 00168 93547 66487 91297 90429 59180 81800 81257 95383
00660 77321 22429 33824 29501 73395 05381 77804 77050 57091
92191 46386 56949 63300 65688 70574 83566 35616 77609 52877
63567 52943 25377 69942 02815 32759 12180 91686 95794 46980
70033 15375 89744 11359 50525 38074 40677 34353 12915 15925
03487 36409 64291 83664 23328 75589 31467 32848 20441 40486
69294 72188 85638 96359 35101 19415 00000 +++++ +++++ +++++

10177/8076/6974 kHz, 29-04, 1015/1025/1035 UTC

29877 36412 28029 63268 62481 84775 08173 13737 54096 91864
51879 89478 98443 39739 11699 39552 47330 95034 33778 34505
27592 37402 18789 64780 01871 07181 79050 20083 34189 77002
15285 66885 46244 76997 61433 66270 75355 28318 70975 99288
70020 64633 43196 92030 83996 46313 12828 57581 54863 96967
51508 97070 77987 17038 54490 26984 11840 54131 11051 24929
75597 34774 82023 11058 24969 87284 32894 07307 17175 10439
95904 41668 01033 20073 00000

01224 85288 10375 51055 12861 49665 76407 67872 59801 46594
11921 98511 72016 71019 92100 96223 77353 45158 17948 90599
21693 63048 57778 88811 43902 09027 58345 24997 91491 79815
74034 99970 87954 64911 87564 78465 87681 64966 20619 36067
79428 52835 57869 73059 24250 07001 32805 37336 38836 72031
48823 23591 60212 25797 34007 40966 52709 58092 53033 66336
43164 90385 24647 25437 95280 91364 18141 69000 59085 67970
27273 36106 56417 36604 45067 21923 88395 04205 87926 92038
75792 13869 42502 10547 68258 21085 00000 +++++

10177/8076/6974 kHz, 30-04, 1015/1025/1035 UTC

Not monitored

F02 – Russian domestic net

Mode: MFSK-4/150Bd/4000Hz

24678 kHz, 01-04, 1120 UTC
17490 kHz, 01-04, 1304 UTC. Test
17490 kHz, 01-04, 1312 UTC
17485 kHz, 01-04, 1332 UTC. Test
17485 kHz, 01-04, 1340 UTC
16233 kHz, 01-04, 1321 UTC
15665 kHz, 01-04, 1151 UTC
13590 kHz, 01-04, 1330 UTC
13590 kHz, 01-04, 1350 UTC
11134 kHz, 01-04, 1400 UTC
16340 kHz, 03-04, 0918 UTC. Test
16340 kHz, 03-04, 0921 UTC. Test
16345 kHz, 04-04, 1020 UTC
14983 kHz, 08-04, 0804 UTC. Test
17454 kHz, 14-04, 0900 UTC
16127 kHz, 14-04, 1213 UTC
17452 kHz, 16-04, 0852 UTC. Test
18935 kHz, 28-04, 1005 UTC. Test
18935 kHz, 28-04, 1020 UTC. Test
16320 kHz, 28-04, 1023 UTC. Test
16320 kHz, 28-04, 1032 UTC. Test

F06

Link 00000

10687/7992/5913 kHz, 05-04, 1700/1710/1720 UTC

13396/11123/9089 kHz, 06-04, 0830/0840/0850 UTC

11100 00000 67193 04016 02179
91098 03003 21489 98512 80446 68461 96586 84006 12926 30803
82510 57281 60368 87337 31617 84102 46508 06223 07126 67741
98609 53356 61354 58927 90998 78749 11326 52618 22661 73308
66425 45028 96122 31959 87790 49340 89779 84066 84132 93556
40880 77068 73665 48905 81326 24271 66845 62261 93511 52744
49583 91000 78350 12252 71652 63734 52710 31153 69937 15366
18425 30215 81257 69896 70076 30271 24407 69416 33734 14668
56132 72743 53837 32433 30726 72104 70410 53102 17908 01340
53800 09143 58712 34039 89115 86919 64030 95057 27567 52122
85537 33852 46882 20615 13654 33069 87996 10622 82252 50819
60197 37207 84792 20091 31912 34971 31559 53721 49336 19912
02716 28375 50065 26383 76832 45965 63951 80080 39600 95950
18342 93012 02400 66951 89907 91371 85427 81116 70232 12258
45057 49687 37369 30186 50128 73184 50533 99316 36847 34661
10132 22346 96986 59468 50312 81991 79080 39951 56213 96019
07286 48530 23119 81739 47612 87599 99685 40909 76204 49671
82445 00987 29360 86224 53764 73672 39970 08671 80439 16671
90082 69892 15141 09609 34255 99783 67859 80057 73401 93230
39571 40585 83820 73976 35292 22786 31073 82796 98712 19216
23424 63428 35610 69178 84514 44695 18207 49294 49961 42262
87682 54794 17573 28446 97014 82471 05865 43546 61337 51233
00556 47100 08008 21185 93754 16215 00000

10687/7992/5913 kHz, 12-04, 1700/1710/1720 UTC
13396/11123/9089 kHz, 13-04, 0830/0840/0850 UTC

11100 00000 65024 11017 01799
11729 08917 39355 76769 28543 28912 53234 87067 41483 85534
19293 48771 90538 50969 34653 03511 39004 92446 64254 94916
74647 71826 07508 45598 13314 57381 25968 39285 28418 64978
17990 37841 54740 70841 51288 87823 39985 63082 89347 96283
42531 24191 72620 80493 98805 61668 40441 21281 08727 28991
04605 74671 12653 04099 10545 21516 58271 17585 47042 59793
80861 47781 90407 69278 45384 24933 94076 03257 23815 11629
59551 86984 06175 51702 49623 27567 68689 04770 29827 64954
47511 08599 49048 18737 91448 36508 95225 10431 92135 41955
87098 65935 15082 07538 87921 27857 80035 40565 52085 32384
64100 82401 40589 30397 26054 23771 66304 57508 75275 43201
54948 82710 33763 10801 32728 90332 64634 24560 76574 74976
65580 71350 87922 54133 50697 29831 75950 28165 69130 57422
61237 42332 33976 28562 35772 30562 59871 16410 40231 45647
32713 35204 44503 05545 59951 85437 42350 10492 74873 69071
96181 10600 93336 66939 92859 28623 46385 95555 96471 67601
37170 85501 09023 58038 95635 48583 74967 24333 29391 25945
90531 75125 94211 34328 03753 47261 32607 17177 00000

10687/7992/5913 kHz, 19-04, 1700/1710/1720 UTC
13396/11123/9089 kHz, 20-04, 0830/0840/0850 UTC

11100 00000 18639 18018 01959
22448 69299 39750 93901 03772 21736 44987 05176 34689 94664
29362 65844 32705 61518 64605 32401 44420 50989 47581 31123
86059 43390 50809 54474 44241 68270 79349 89253 35446 95508
94964 81157 47610 37032 93503 65467 12291 01382 46452 18531
80829 68288 42575 09733 02960 75458 90596 58644 31294 34755
68850 27030 00126 19960 32844 00413 51982 93306 16669 38872
10380 62969 89194 01769 22194 88693 50986 76081 18106 77766
82881 63053 64547 38497 82170 02812 05592 83412 47300 41674
18220 99342 97063 71819 29401 26588 35188 97996 68438 14361
96280 10991 52987 44677 34053 72495 32224 41900 37769 41114
35561 10106 87856 94151 00383 65483 86610 24902 77210 55924
24939 20103 35750 85023 71076 47265 20263 82646 92204 06541
27679 89280 44931 26837 06909 46333 95543 10857 02785 09577
55990 58745 93062 27930 46521 25047 91936 54752 20923 88638
18486 83851 15298 40354 53503 27381 06306 17956 33147 77820
89818 43169 52837 21229 15928 40451 79846 93949 41232 42181
98023 99964 84348 09970 33079 31079 95581 26770 31873 57122
76697 39469 94151 78363 11724 56662 80157 57312 94731 31290
42552 72108 65517 82823 56107 58678 89142 38686 43566 33852
40248 99609 21153 18193 00000

10687/7992/5913 kHz, 26-04, 1700/1710/1720 UTC
13396/11123/9089 kHz, 27-04, 0830/0840/0850 UTC

11100 00000 21684 25019 02379
37110 98880 50143 38950 72605 49873 10474 56384 83510 47183
31550 37431 82206 83649 07235 74716 23398 65682 09013 97809
90655 64725 37036 97196 60008 53961 97437 79589 20273 28723
98101 15533 54812 34021 80076 65227 14405 47646 26822 93510
35913 92273 18479 09942 86446 75001 23338 94919 37694 77782
43710 97766 00120 47159 58377 17736 71716 56758 28809 03854
80988 40977 61341 34553 28870 23296 42498 63030 59242 87662
89640 39258 12770 66372 84145 44600 43710 42895 79279 99961
04407 93082 99977 33403 27142 13188 76695 18181 58042 08138
80537 17116 22725 38507 51840 94266 28360 49604 39398 79807
31862 31141 92520 99082 28864 80894 73118 01746 43194 70815
79980 51939 21523 39013 02461 65449 62872 56060 45738 04767
37677 39046 94849 67995 76083 11828 09675 32550 30177 34904
68078 39571 39820 53361 99366 30005 56789 36315 75277 68280

06907 06307 50671 14514 94841 82064 71117 31198 81274 83088
89565 35295 87120 69489 59279 31676 04481 15518 95232 88844
19024 40221 21155 42893 73484 43666 44394 40606 26955 22174
25815 57667 89671 60980 36896 52905 37972 27792 21220 44504
39123 15648 02551 19129 40688 08539 06677 09902 04145 68217
89214 04155 87419 65638 86553 66911 06038 05464 32132 91029
27581 17071 05238 09935 79120 10506 04513 33900 72338 20812
63350 95783 76004 89174 49377 17193 90505 54325 15204 30983
04117 52628 92633 21046 35691 50305 47514 65323 93472 56220
37421 92981 04699 88670 39363 19235 00000

9437/7691 kHz, 07-04/08-04, 0800/0810 UTC

11100 00000 62147 04084 03079
81498 66584 34488 00308 90261 78007 18962 25601 90777 55856
70412 45933 87144 78290 60419 44778 15912 47050 06254 52536
74619 38920 55535 80285 91569 74170 16304 51133 46251 98458
58209 66622 79300 23880 96401 68381 35444 06688 90919 05330
45862 41743 49959 67920 19826 23188 59184 94104 54557 69267
26138 34202 65155 49161 85323 09596 02075 20215 15587 13048
16614 68150 29174 81403 94699 79271 31780 43916 23874 77293
03032 49901 79267 73684 77342 30109 51041 04858 88953 63878
59780 02509 14685 19479 71887 83010 80820 62840 53036 96995
85373 89762 01480 02039 42143 49533 51967 80089 81500 86787
35670 54698 70945 77394 60990 54429 68049 00753 22028 69871
78341 06188 96919 61062 55164 06984 90811 55221 11843 92575
99671 42666 08647 46325 91038 63429 78602 58296 29257 18309
67390 71045 18174 04609 93319 76102 07556 81753 15667 69521
48518 19892 16624 10343 20115 78026 28307 06346 10993 26970
96986 12128 81681 81891 43598 73147 63512 38034 48259 79931
01800 77265 10832 61679 45559 28881 78047 46258 55663 28955
50531 10562 75498 96662 50154 44652 72259 57011 93390 12860
83133 55319 09851 61170 76363 25827 41505 55064 72072 13102
66666 15450 94810 00868 87703 37068 47448 74932 47845 13901
72087 82696 64270 86858 03059 48057 09997 55169 41334 83247
22067 66476 75216 10376 48134 06268 84281 36324 80081 99919
74664 79827 31890 46034 77143 51174 66402 58900 47397 24525
87659 01588 06721 58150 54409 99841 77681 23229 77699 96817
57073 03966 02206 37496 39378 29087 67003 61214 04935 79569
87811 26316 24204 99286 41449 56705 18383 37957 88905 15141
02032 33029 33510 18188 07480 83341 35186 29222 06591 79150
44717 37107 49220 44032 61922 72577 38831 04620 82102 80196
86795 10391 85870 31732 09889 97040 90090 19114 77538 17308
44471 49145 76589 35639 47620 64871 44444 69663 00502 54248
28892 16711 39011 68251 00903 84305 00000

9437/7691 kHz, 14-04/15-04, 0800/0810 UTC

11100 00000 16485 11085 02139
75305 12881 08605 40252 57593 34666 71106 29920 38119 30167
72638 56044 52760 81969 17116 68155 73950 51140 79381 63001
73097 08083 53222 93379 08498 90829 36592 63001 43417 14218
71231 93335 24038 78379 78865 73355 71961 49983 61174 28137
70941 14671 55720 67242 52549 24122 65016 98821 10449 86184
00933 20385 97975 71509 11618 22156 88697 35123 83127 63980
04661 76389 32948 11689 41990 85773 37606 43882 48546 51871
61541 65058 33318 27126 79439 86027 12244 75669 09212 57545
20141 51741 97800 68115 43439 82096 27012 41877 53403 50869
31550 97540 44530 10304 46447 54284 07811 65812 26076 95570
93535 08777 01932 26805 43353 95548 71373 87777 96237 96073
34504 05836 98080 60591 21387 00712 69581 77821 76783 76944
12123 23113 94592 64841 56324 19954 19187 95914 82962 63308
55834 23722 70933 78205 57383 26058 51962 12015 79410 49433
76734 83857 21008 81768 22138 39577 93409 64256 94311 85721

83626 78321 07178 00963 05299 68603 41153 48392 53938 87932
11720 37136 08753 75196 02552 06729 48243 02066 42873 32667
71749 49499 33752 76604 44152 99977 52994 29605 05897 56393
93349 21900 15545 23535 13705 97591 17025 13114 07941 77735
48784 58258 21172 60231 37018 48422 68017 29977 40174 20634
32627 77706 36905 68040 55119 50965 74674 51664 34141 85643
21190 85211 00000

9437/7691/5783 kHz, 21-04/22-04, 0800/0810/0820 UTC

11100 00000 15739 18086 01039
79521 77323 75054 30881 88679 09991 98089 71005 46375 45443
18310 27450 07933 63099 21861 51124 03860 70261 94041 87549
31858 80907 07073 84423 38390 42255 46624 93022 69469 07507
69308 24405 95396 78226 08308 46321 39089 64781 69346 31800
62724 38292 84172 95316 92368 72519 13750 77505 85278 99129
18346 64347 69567 24783 36699 51758 10925 83466 41458 91530
86070 22527 63077 79565 67637 45824 99355 72314 50166 62461
52809 42390 71899 14509 63063 09278 12067 82174 26448 06073
68345 89853 19994 68194 44183 61494 72005 55014 00669 98713
46407 40328 52649 80110 33043 32609 13763 05204 61124 10995
20093 86101 00000

9437/7691 kHz, 28-04/29-04, 0800/0810 UTC

11100 00000 56481 25087 01939
60104 16734 54971 21632 57418 99382 02405 98788 88359 05953
24948 11810 14268 35895 58594 09387 97228 67773 11868 87633
60270 04015 08299 96211 86725 11451 07903 39465 94685 37353
06098 64775 47495 05645 33506 55301 86215 22969 05064 69302
94996 49319 91896 93238 35305 12895 14376 00815 09927 73892
79808 35184 42700 66906 13194 56469 84902 76631 54479 21815
84246 26550 20768 90141 77392 85302 56891 68791 91952 20414
22811 44264 68892 54072 91266 64214 41287 00651 54116 62911
30359 90649 60808 47339 44738 10754 37419 86134 93886 14691
59691 68535 51616 84578 78519 25549 30641 47444 21307 30500
54108 76615 17647 21171 35033 32650 22753 10712 99583 23516
37079 79500 15152 88687 45576 65152 09148 36863 25006 92860
89446 91975 92765 13257 02448 27197 95649 39980 89651 91617
61994 04134 28726 59287 65633 67833 69969 55305 75112 64018
04128 38656 86592 54722 22498 46461 63884 24988 55250 29353
34047 54614 98913 32642 11990 34922 68953 02978 52518 22729
38396 25184 53258 48715 48411 18954 56894 22373 01815 50101
26165 00731 75415 36049 90046 13025 12150 50238 84570 58522
78934 55155 36699 19674 01181 18662 64716 57786 09913 93305
93546 87191 00000

Link 10053

20971/15919/14386 kHz, 01-04, 1650/1700/1710 UTC

11166 10053 15963 01001 00049 00000 00000 00000 00000

20971/15919/14386 kHz, 08-04, 1650/1700/1710 UTC

11166 10053 25813 08078 00049 00000 00000 00000 00000

20971/15919/14386 kHz, 15-04, 1650/1700/1710 UTC

11166 10053 13467 15001 00049 00000 00000 00000 00000

20971/15919/14386 kHz, 22-04, 1650/1700/1710 UTC

11166 10053 15487 22001 00049 00000 00000 00000 00000

20971/15919/14386 kHz, 29-04, 1650/1700/1710 UTC

11166 10053 32147 29001 00049 00000 00000 00000 00000

22877/20947/15893 kHz, 06-04, 1530/1540/1550 UTC
11166 10053 74523 06001 00049 00000 00000 00000 00000

22877/20947/15893 kHz, 13-04, 1530/1540/1550 UTC
11166 10053 21548 13001 00049 00000 00000 00000 00000

22877/20947/15893 kHz, 20-04, 1530/1540/1550 UTC
11166 10053 25813 20078 00049 00000 00000 00000 00000

22877/20947/15893 kHz, 27-04, 1530/1540/1550 UTC
11166 10053 74523 27001 00049 00000 00000 00000 00000

Link 60070

12095/9069/8048 kHz, 01-04, 0030/0040/0050 UTC
11166 60070 95123 01001 00049 00000 00000 00000 00000

12095/9069/8048 kHz, 08-04, 0030/0040/0050 UTC
Too weak to decode

12095/9069/8048 kHz, 15-04, 0030/0040/0050 UTC
11166 60070 32147 15001 00049 00000 00000 00000 00000

12095/9069/8048 kHz, 22-04, 0030/0040/0050 UTC
Too weak to decode

12095/9069/8048 kHz, 29-04, 0030/0040/0050 UTC
11166 60070 15487 29001 00049 00000 00000 00000 00000

Link 70059

9473/7556/5471 kHz, 07-04, 0400/0410/0420 UTC
11166 70059 74523 07001 00049 00000 00000 00000 00000

9473/7556/5471 kHz, 21-04, 0400/0410/0420 UTC
11166 70059 85279 21078 00049 00000 00000 00000 00000

Link 70202

No transmissions on 1, 2, 3 and 4 April.

11054/8189/6952 UTC, 07-04, 0700/0715/0730 UTC	File 44497 (binary contents)
10388/8084/6780 kHz, 07-04, 1200/1215/1230 UTC	File 44497 (binary contents)

11054/8189/6952 UTC, 08-04, 0700/0710/0720 UTC
10388/8084/6780 kHz, 08-04, 1200/1210/1220 UTC
11166 70202 75641 07098 01959
45187 02157 56433 72257 85031 99430 60308 15396 00698 83380
36979 27389 24057 18227 06831 81610 54284 36345 89245 37465
75775 71594 87959 60860 29277 58742 06966 97518 47186 53701
70431 66307 88948 54250 45059 64770 37480 25932 88319 04065
42577 62810 71002 15466 22222 37788 47529 95656 57746 22148
72443 82961 43778 79036 86542 81732 78902 60545 21069 77060
07999 63106 93406 07020 52157 20866 92722 84598 87146 41740
78978 86543 56342 15830 43772 51277 29076 50889 06416 53084
40318 14533 43725 44756 72662 87864 76918 85886 66521 60223
64097 98983 69485 19732 71722 20623 60777 19326 23532 39785
11751 22543 44050 60492 40162 44722 26342 30660 49159 34530
95716 72237 50817 69934 57519 57303 17042 90742 98964 78501
23673 36997 64256 58586 87905 79535 34595 24393 31815 13025
47551 08639 04078 63027 80540 94247 88263 33867 70391 61103
54286 57375 58224 53410 63908 45787 42146 17084 02366 20353
38478 39838 36509 23451 28513 36899 74044 79251 79027 06511

18753 16232 32036 13654 01782 08086 35532 13657 01379 56825
18177 85614 95674 60118 97199 71788 76365 11173 82961 05408
91422 44691 96950 30553 95171 90981 93000 00000

11166 70202 97835 07099 02079
93929 68529 96618 89890 32234 08046 53611 69084 85176 86842
64025 33264 16542 45503 14045 04745 69804 35939 10962 33621
38675 17895 84430 97835 36190 48126 51117 20144 48267 91942
91154 44156 82676 11798 09856 36649 49353 12622 83118 08339
33002 48579 09960 70292 43921 20936 20610 68178 57983 21731
13623 61531 81721 02937 20415 40223 03443 75791 20691 95335
16318 70000 57185 86606 24386 07481 23153 73651 67395 70350
21059 03137 25439 67842 15889 69106 89310 31829 31528 88629
07518 95648 63652 59976 45899 35924 07550 95496 20768 82046
24324 46394 91532 23039 93919 61581 23735 66454 28394 47807
58419 29020 43885 23241 48802 63710 14709 81695 50158 52925
58016 09689 73865 22476 22465 23525 41549 56052 79320 18576
00264 14877 39446 47964 84641 92208 44607 72826 36960 57407
06522 51343 21045 69235 92111 58727 90970 63076 78381 55362
00476 41782 25357 45261 64043 24806 40535 92056 05572 35332
33272 84691 55589 30080 82550 70005 82937 01471 66560 94403
71861 06842 27544 21794 80455 04411 70316 19984 41385 00645
17930 32721 90837 38768 72892 79561 36634 83048 57402 50764
01432 78585 31015 89389 01968 91267 09189 77789 50274 57600
31154 70684 87802 99072 50531 42009 88396 80774 47140 37712
91048 18933 83437 51699 48379 99205 00000

11054/8189/6952 UTC, 09-04, 0700/0715/0730 UTC File 44401 (binary contents)
10388/8084/6780 kHz, 09-04, 1200/1215/1230 UTC File 44401 (binary contents)

11054/8189/6952 UTC, 10-04, 0700/0710/0720 UTC
10388/8084/6780 kHz, 10-04, 1200/1210/1220 UTC
11166 70202 18432 09002 01579
56696 50141 38172 13157 41159 66222 40055 93135 09786 32610
86217 84823 21350 99694 86214 98967 19399 09303 44649 10994
18155 92971 96343 55636 69381 75029 65441 41183 27394 66378
78119 31801 54398 59955 83605 71349 33351 63779 63176 47152
80524 32535 31840 17135 74974 83636 62376 48782 47076 08689
86429 43355 93344 16312 52337 43794 09700 67235 44391 49748
60383 87624 93201 88178 24706 71567 31874 12959 88813 08652
77662 31923 74659 97585 43809 84786 23373 31785 11237 20386
75209 67875 14804 46675 13270 13037 23788 51908 63178 92137
21297 20455 65900 80592 12300 91681 65898 13871 14949 35335
81804 09617 14899 41869 51797 63294 87296 51147 70880 03309
16133 67968 62233 16536 65649 37836 49842 80203 83484 81431
24580 61053 40238 11202 20935 67729 35156 78529 46566 67322
22612 24892 31890 02015 39082 35473 91857 66760 35289 18646
17142 33937 43213 59777 36896 35908 32654 22783 20286 41432
37031 97877 08982 86859 53106 02155 00000

11166 70202 64328 09003 01639
21300 30951 55252 34072 25127 42044 44235 15226 55354 31773
67403 11395 76402 30919 96993 50437 35944 94703 68469 81417
13060 62355 72087 01207 95015 59739 59805 57753 37345 18492
34704 65941 86907 10097 15113 96991 72633 18340 90639 27331
93625 98580 12273 57875 59318 97274 83757 39655 61366 30195
46432 66731 81966 42774 74701 22334 68289 01018 24344 89152
27714 86417 00850 59736 23545 93312 39947 07922 75914 52122
17538 07233 97539 26900 31206 07198 19038 60638 20507 03502
83469 66770 18196 62941 14820 90291 49622 89083 90084 86955
22438 39597 69660 93972 73835 31181 65719 90642 67487 93020
53267 72381 57386 54723 53559 86543 60764 79660 44563 03519
07276 79661 78170 21508 56647 71986 08826 28430 01967 64528

63271 69398 00804 80170 06092 93195 01352 56241 80752 76197
55776 80012 30804 47171 37958 46158 30957 61385 07820 47129
82707 97484 89415 32379 54196 75547 54988 97371 68999 19776
32162 88306 73528 14249 76469 33514 37731 25187 76404 37443
68781 03161 00000

11054/8189/6952 UTC, 11-04, 0700/0710/0720 UTC

11166 70202 76193 10061 00049 00000 00000 00000 00000

11054/8189/6952 UTC, 14-04, 0700/0715/0730 UTC

File 44404 (binary contents)

10388/8084/6780 kHz, 14-04, 1200/1215/1230 UTC

File 44404 (binary contents)

11054/8189/6952 UTC, 15-04, 0700/0710/0720 UTC

10388/8084/6780 kHz, 15-04, 1200/1210/1220 UTC

11166 70202 65890 14005 00779
18097 93526 35248 90490 43660 38161 98269 83663 93875 81195
24315 23620 19180 19620 97333 00118 93345 22168 35377 50350
12077 91072 43146 40481 94449 37993 35355 01186 54362 10032
10578 15632 34195 26788 80264 83344 17870 14387 82635 08378
65486 47416 36110 85252 36724 34711 11985 81073 95214 09923
31036 37286 11044 12814 13727 39489 03595 72207 38728 28762
91907 26544 89415 52924 44746 42959 93055 81180 47560 20849
82337 30578 28532 90832 33974 05075 00000

11166 70202 36172 14006 02319
91793 31492 28109 98032 87931 94210 11527 62589 39752 57009
36472 04483 47057 42796 11993 16481 86360 72486 09438 64198
05042 54548 03935 62211 45689 25426 70257 22151 30291 89277
75270 83696 58988 30474 34157 64430 03060 97278 22587 89464
96834 80165 62046 86800 58222 33197 20483 59341 92531 11912
95483 69504 59296 26147 72151 97374 06757 31247 72880 58318
03719 06082 41215 91019 23458 91320 26968 51856 59364 86403
64814 76564 77008 28635 63506 95124 32325 02841 47942 10811
10597 55040 21242 79329 65927 08553 39032 49005 65883 05980
13126 47927 71010 25510 86789 29016 03893 44976 48768 08931
87448 52102 78281 61765 57163 24378 38152 53466 76922 27007
58273 27908 13151 02350 76593 80574 46944 49312 29809 80762
28868 16115 10952 28269 06131 54876 36055 55485 76792 11449
87093 10837 50728 48950 23380 84509 22006 28419 78600 62397
82382 95041 85691 19216 30600 43378 96729 86703 57167 60034
90027 57868 09322 67207 81628 13199 65852 15555 83384 79791
76471 99807 74793 59321 45430 95588 80807 85799 64051 40842
72777 99055 21888 10348 34727 44877 51166 56726 62157 37744
84232 16390 85543 47109 28668 03874 35741 93135 89763 42981
93461 62859 95056 08186 90027 82690 00595 74719 51579 08202
83631 00796 03923 17140 51430 90395 80221 16599 20881 10058
98693 00286 48586 58113 02527 16831 16141 09793 79183 35058
00265 86656 01285 17177 82487 23778 56273 35817 78077 06229
00000

11054/8189/6952 UTC, 16-04, 0700/0715/0730 UTC

File 44407 (binary contents)

10388/8084/6780 kHz, 16-04, 1200/1215/1230 UTC

File 44407 (binary contents)

11054/8189/6952 UTC, 17-04, 0700/0710/0720 UTC

10388/8084/6780 kHz, 17-04, 1200/1210/1220 UTC

11166 70202 79165 16008 02119
66889 88663 80760 11886 18304 17278 36124 23119 11301 90145
58529 18736 73636 54616 02564 35901 87298 76467 51298 35846
62820 05213 11548 23911 58216 62543 24851 48189 90990 96107
05109 31487 16644 65808 38824 16256 72125 54809 08877 27216
07664 22430 27765 81329 55413 41132 91263 99833 08352 84767
88429 02009 07874 60284 28889 85371 63511 00084 73347 21982
53220 57200 78263 25553 77669 70507 90615 69048 66978 92127

53712 57449 63319 94239 09962 85396 27853 97464 11565 34370
45408 88022 75044 89120 25350 15846 40572 78014 22087 90840
22007 67000 23636 19475 58598 61872 81695 48890 04287 98520
81658 10716 15541 25867 76007 81784 23665 11147 29518 03924
02517 22260 49724 30019 67574 66847 01076 88534 67288 92795
26215 83678 52654 79864 22830 73398 35946 77100 49507 92400
74550 65746 59027 12368 40833 52329 82533 56585 63977 21608
13031 11132 54733 04069 61620 99856 49016 37666 84941 15302
31291 28483 07231 22775 23674 40006 85458 79749 51700 65708
90957 37793 22685 64607 06003 19191 77625 64509 58765 85474
02568 62615 45080 40024 10389 78172 10479 31947 28928 36869
90899 53411 56396 91653 35534 47619 70016 09668 60241 69619
98816 79979 04961 67136 96528 21802 93571 73605 75513 97894
19630 30599 87664 62820 06415 81847 63222 00760 14745 08209
00000

11166 70202 16879 16009 01779
87779 27857 52045 02953 87148 80449 53817 06157 76334 99540
51689 90701 90508 05292 43021 01174 16538 26737 21506 23599
47325 17241 73163 59146 19061 84484 45084 61596 67319 14716
85360 30765 62941 95899 77655 79080 13639 69504 18829 13480
42261 65574 13076 99835 77658 00791 81002 02084 19078 44223
07077 13250 60037 80423 73903 20553 82603 24587 56749 71782
58023 69443 76757 35129 14635 68575 36294 69667 59006 85853
84859 48657 61230 65668 89005 02881 40322 03648 04693 76170
10645 22562 75523 10348 75312 83077 05296 01728 77504 84071
78313 96405 45622 32181 25879 16497 93238 85276 62421 34515
59761 99552 39691 38093 02762 34918 92456 52217 77902 98370
74139 11166 67396 30051 05838 97349 42941 61664 87153 89229
74061 01940 42284 85504 17800 28844 99802 97755 50694 93206
29561 28739 28978 63470 85167 78504 87935 66232 25465 45539
16363 02281 13451 15113 67056 42802 16074 52027 89279 35458
53349 39931 94138 75005 70231 34425 88799 18160 29670 22106
40504 47384 50298 02766 56292 13289 37194 36919 89396 10332
79133 25850 08231 65513 10799 09175 00000

11054/8189/6952 UTC, 18-04, 0700/0710/0720 UTC

11166 70202 85432 17045 00049 00000 00000 00000 00000

11054/8189/6952 UTC, 21-04, 0700/0715/0730 UTC

File 44410 (binary contents)

10388/8084/6780 kHz, 21-04, 1200/1215/1230 UTC

File 44410 (binary contents)

11054/8189/6952 UTC, 22-04, 0700/0710/0720 UTC

10388/8084/6780 kHz, 22-04, 1200/1210/1220 UTC

11166 70202 15284 21011 01919
17868 07524 39597 27256 68637 49103 34890 84366 75690 83194
56017 26065 78078 32467 28408 14924 40774 57411 07611 69187
32527 64339 13054 00323 57321 81453 02133 52218 94144 76419
51820 77984 24738 13879 39990 15292 54027 76340 43618 46175
52911 96892 96086 52258 78106 77162 70738 01312 48730 88970
82904 26114 84300 83114 27564 81517 33862 53717 94842 90684
50905 31584 30528 16423 93773 04990 33797 18549 56250 91361
09329 83227 58005 08262 16007 35222 49593 17134 79387 68995
11693 38240 60128 59585 53268 60223 95558 39218 38344 92736
56581 50566 96085 35582 87095 12615 93860 62780 18128 60063
77981 45032 73855 42189 11811 58986 11712 92133 65913 56762
63764 02531 39953 94172 71545 68417 21009 41063 31528 83373
08011 22229 93440 99817 56967 62326 78589 89399 26695 33233
10400 64431 29706 27282 74343 46291 17977 04816 49451 91730
58256 89492 78595 13039 76613 09783 69730 52987 76915 10096
45274 00496 62917 79975 81823 57959 18647 74794 07391 96177
26785 26395 48346 57814 29721 67102 43251 95325 62966 15565
65782 54312 15623 97833 23916 38204 97589 02149 27573 15237

18193 90843 41912 53657 05934 17819 68447 96071 24030 11189
00000

11166 70202 96548 21012 02039
15893 51933 78995 65627 65461 73417 59210 53608 54645 39475
58839 41738 61529 86599 65709 70881 74095 48040 87731 63976
98909 90972 07541 42951 64433 26823 02843 74248 67406 36917
43436 97651 35728 80658 00822 18103 06290 78404 31352 65191
41170 86242 18851 50008 30667 04842 87646 74050 56564 89585
21950 69869 14100 54150 52516 78132 16068 84730 96533 90810
27470 07104 61669 15159 04191 73705 50212 38189 34096 62915
24257 96318 04029 07741 17850 79876 41102 96073 07055 27169
01763 09729 73864 87776 07035 94427 24891 59780 47398 77934
50788 30601 05730 78521 37327 76137 71754 70953 64070 97895
46428 02182 51586 02788 59711 73928 43128 55306 50147 34356
31733 56736 79701 46006 68657 31112 82292 22194 14106 22599
69447 49049 16181 33990 41528 35386 28992 60997 77958 57597
05860 02043 04895 91748 28561 48210 63773 50077 58543 83073
29175 64061 21045 47068 49447 81267 58074 46105 08511 68150
11163 09106 32301 36003 19847 24157 88270 32228 46807 07959
51405 64141 65607 88266 35167 47473 71967 04010 10831 96770
04510 52764 63624 99874 85914 40291 59135 43673 20424 11796
18395 83310 08630 69631 25106 72034 65485 07097 13426 93886
52479 13052 09757 66402 59902 27013 26979 05524 00152 49420
34563 12201 00000

11054/8189/6952 UTC, 23-04, 0700/0715/0730 UTC File 44413 (binary contents)
10388/8084/6780 kHz, 23-04, 1200/1215/1230 UTC File 44413 (binary contents)

11054/8189/6952 UTC, 24-04, 0700/0710/0720 UTC
10388/8084/6780 kHz, 24-04, 1200/1210/1220 UTC

11166 70202 45879 23014 01939
72552 70994 71029 49024 46589 89775 94545 47775 11726 99996
06521 02925 18416 61126 15311 86301 51080 96607 19839 76088
93478 64478 81462 09917 62935 72235 17039 43914 74347 40623
36608 34904 19912 46032 74154 87931 75516 96203 84859 36315
69731 18917 07311 46393 76328 68360 14075 64183 16277 78854
99097 46106 80154 20635 75351 40988 06893 37372 81180 15519
79825 70112 18767 40357 25942 97337 73171 79059 29313 45823
85372 47037 94608 51982 77745 32717 21655 78390 55432 98096
76956 15171 32007 00882 73137 20930 52919 05394 92227 82930
15108 74430 13728 01195 06257 59281 33405 26218 12114 30060
83746 04980 65309 13572 92009 14950 34122 30876 36805 90764
74622 51747 89159 73270 94629 08225 48980 35614 02923 34419
12873 66075 42148 24786 34245 12326 28851 28040 61625 16792
49073 18902 66150 97831 82958 14864 94148 56393 56799 30165
05753 12844 45952 84158 85492 03676 77089 06259 35793 92751
03182 04666 89324 76786 49691 91036 01131 89771 55383 78310
06488 35990 56205 93861 55417 06350 85672 75166 59802 57695
90197 40192 14031 59801 82787 49662 75122 39727 83573 03418
13254 78218 20579 38043 68640 37854 89190 17945 75701 27613
93752 14191 00000

11166 70202 94128 23015 02139
28867 89514 75467 15914 82028 09372 41795 66641 50547 23537
56318 86935 36414 04831 72469 65621 67027 81620 63997 05977
06513 88180 45511 72240 06986 14761 91569 28783 23198 74544
40240 01657 38995 29696 92064 17184 79023 43673 40378 97286
04145 51994 93908 16245 13960 68659 77601 48567 04910 70390
22605 62661 57385 25900 81348 39990 50263 62367 28664 24411
26335 86302 34871 31369 57045 00998 21781 71649 79986 87748
37540 69363 07583 43026 11266 78860 30404 88804 73399 30255
63551 98207 52724 58252 09533 03685 85974 93967 36098 79890

00989 24410 92437 18458 59323 49343 12207 36854 69292 90187
76797 88509 05340 30664 37311 66396 94705 93863 18648 17257
57313 85427 54169 08666 09813 57534 24369 16104 69728 73367
97974 22251 20639 76764 98936 45657 24325 96728 47727 41014
90836 41486 50403 38182 42398 61791 33847 12180 32107 88145
50649 01318 03353 71641 02046 15667 00888 83100 52370 03038
69511 50200 33440 64678 01277 37275 62321 37858 17170 97488
20920 87535 94213 52048 70809 74300 73897 76159 01768 90763
12911 96410 37432 83602 62091 29266 46523 03428 84532 15361
33074 49679 48789 29286 04101 02720 58122 69550 38148 60332
01713 58397 03159 20794 38786 06186 97086 79715 51583 19998
09713 32851 28120 61177 29082 02038 60667 81481 41007 26478
70889 15211 00000

11054/8189/6952 UTC, 25-04, 0700/0710/0720 UTC

11166 70202 93452 25097 00049 00000 00000 00000 00000

11054/8189/6952 UTC, 28-04, 0700/0715/0730 UTC

File 44416 (binary contents)

10388/8084/6780 kHz, 28-04, 1200/1215/1230 UTC

File 44416 (binary contents)

11054/8189/6952 UTC, 29-04, 0700/0710/0720 UTC

10388/8084/6780 kHz, 29-04, 1200/1210/1220 UTC

11166 70202 24685 28017 01539
50461 00043 37827 10924 96232 41649 86852 47249 64989 76847
98716 79978 65911 18890 51479 33380 65128 97434 63415 23800
44265 94982 93983 58274 62194 99438 25364 35955 30967 27471
97995 19568 41825 98355 98564 69074 02260 62996 23859 54723
70036 17816 68950 91689 95132 58188 13124 63485 05525 51112
02001 26317 97754 31816 49291 11599 18225 53968 06611 68793
46151 48190 74803 15769 14112 68563 55205 88865 27135 31805
64286 09865 66256 78809 60108 12023 87486 13242 54041 92390
52130 96868 06161 82581 49383 06315 27789 55188 97160 80932
39586 08027 32078 16471 58659 93404 24535 84238 13107 84592
79830 80436 07437 96695 11254 35353 87314 04101 96084 37117
77049 21695 50440 49684 88284 42046 83903 29746 23311 45720
19887 72263 21445 26934 92641 39284 21916 01732 56870 51765
41691 90860 70879 49063 91679 94549 39197 45782 79755 01359
25603 40689 74031 98311 72512 57346 24825 74473 87631 21190
68756 17151 00000

11166 70202 34685 28018 02099

47752 02083 21694 27348 57586 63586 17343 78581 40317 18151
35252 96190 81883 59513 39294 50501 63683 18458 77409 26303
10120 94327 07914 98155 83913 25310 19658 74941 27598 89668
06976 18342 74646 55135 85349 64920 78662 18620 58737 06520
34084 03446 74500 08635 86813 06297 26866 71464 58240 11047
94852 63334 31073 11685 25623 81157 70428 11500 99168 17647
78606 90724 35290 39941 07005 59830 28794 09353 73586 40644
23852 96913 59363 42492 63458 74407 82310 25549 74923 85579
72171 68578 77332 27213 94568 83258 21930 94747 97871 42278
01331 72145 81260 13388 88537 70677 07414 16593 91664 46325
08264 46687 35332 50482 57254 28294 04652 93642 06547 95626
12752 26771 12596 14134 77768 70027 98543 86231 20260 43552
26877 08308 16953 79978 80763 71171 71783 23382 77521 21165
90160 44332 62661 24091 67384 25758 57922 99168 27170 99287
61757 15199 71197 36773 25690 66109 25639 26678 54997 68104
95601 90010 07140 45561 63405 15500 86379 97901 91656 18695
58038 64597 17042 54679 30812 30509 45778 39087 80593 38748
86665 57100 14236 03247 82670 65135 96696 38215 26988 14877
89992 46684 74504 54374 77415 35326 84620 85873 71436 47717
56348 85071 28736 33255 41633 11486 20807 93907 47844 64626
33555 75974 65351 65654 94343 99066 81143 18207 00000

11054/8189/6952 UTC, 30-04, 0700/0715/0730 UTC	File 44419 (binary contents)
10388/8084/6780 kHz, 30-04, 1200/1215/1230 UTC	File 44419 (binary contents)

Link 80214

20875/19947/14571 kHz, 03-04, 1330/1340/1350 UTC
11166 80214 39846 03067 00049 00000 00000 00000 00000

20875/19947/14571 kHz, 10-04, 1330/1340/1350 UTC
11166 80214 76892 09087 00049 00000 00000 00000 00000. Wrong date in the header

20875/19947/14571 kHz, 17-04, 1330/1340/1350 UTC
11166 80214 87451 17011 00049 00000 00000 00000 00000

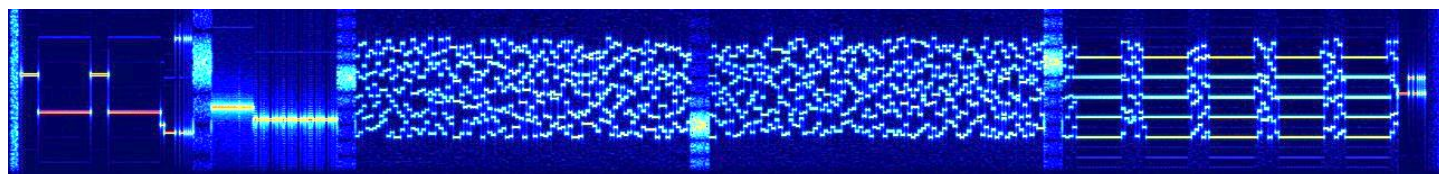
20875/19947/14571 kHz, 24-04, 1330/1340/1350 UTC
11166 80214 37456 23098 00049 00000 00000 00000 00000. Wong date in the header

F06a

18188/20923/23451 kHz, 01-04, 0500/0515/0530 UTC	Message (binary contents)
20917/17521/14441 kHz, 01-04, 1300/1315/1330 UTC	File 04417 (binary contents)
12203/11113/10178 kHz, 01-04, 1500/1515/1530 UTC	File 04418 (binary contents)
14928 kHz, 04-04, 1130 UTC	File 04402 (binary contents)
12213/10578/8077 kHz, 04-04, 1500/1515/1530 UTC	Files 44442 and 44443 (binary contents)
11167 kHz, 05-04, 0300 UTC	File 44413 (388 bytes, binary contents)
11167/13851/14355 kHz, 12-04, 0300/0315/0330 UTC	File 44413 (388 bytes, binary contents)
11167/13851/14355 kHz, 19-04, 0300/0315/0330 UTC	89 blocks, 1 msg (probably msg serial #16)
11167/13851/14355 kHz, 26-04, 0300/0315/0330 UTC	File 74417 (1296 bytes, binary contents)
14763/16325/19561 kHz, 02-04/03-04, 0600/0615/0630 UTC	File 44936 (1194 bytes, binary contents)
14763/16325/19561 kHz, 09-04/10-04, 0600/0615/0630 UTC	File 14437 (binary contents)
14763/16325/19561 kHz, 16-04/17-04, 0600/0615/0630 UTC	File 41438 (binary contents)
14763/16325/19561 kHz, 23-04/24-04, 0600/0615/0630 UTC	File 44739 (binary contents)
14763/16325/19561 kHz, 30-04/01-05, 0600/0615/0630 UTC	File 42440 (binary contents)
13398/11125/9091 kHz, 11-04, 0500/0515/0530 UTC	Files 44444 and 44445 (binary contents)
11611 kHz, 22-04, 1155 UTC	File _DI79993.096 (binary contents)
12187/11533/10186 kHz, 25-04, 1900/1915/1930 UTC	File 44041 (binary contents)
11464/10231/9070 kHz, 26-04, 0600/0615/0630 UTC	File 44041 (binary contents)

F07

14541 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2000 UTC
13526 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2010 UTC
12214 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2020 UTC
11476 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2030 UTC
10283 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2040 UTC
9367 kHz, 01-04/03-04/08-04/10-04/15-04/17-04/22-04/24-04/29-04, 2050 UTC



11177 70103 85173 17050 04003
76230 20018 77569 80091 00070 29390 11142 60724 63068 23535
77535 70548 99031 25364 35713 01429 27517 08812811088 34119
95&1 02031 80234 05563 33752 57474 90067 48561 71704 31)704
22443 58491 92002 37654 40091 66761 15432 74867 74848 25690
44289 32698 44104 34506 11116 30848 06411 61140 06419 51130
92188 39510 83843 57062 70470 46979 66224 17863 37616 91682
00945 79023 38932 64397 38060 46656 59151 34658 29607 77792
42686 95789 73541 93831 29610 88563 50746 59316 18298 58148
28539 93231 90661 24048 29123 05009 60927 67718 86418 72427
33880 67548 39707 03592 83518 35890 37534 50186 88058 37823
50298 64178 82223 96351 14973 15177 12754 13714 60391 10610
08081 63485 86541 85933 98095 33178 96293 57040 44951 22015
03014 52065 70842 23559 62492 64774 93690 47907 02621 96717
06683 63109 49272 80350 62586 60519 71793 00285 48794 73762
96581 54882 64029 05996 62151 25367 32643 45161 14151 44638
17451 71917 63752 82984 17043 89926 57860 92878 58498 33201
34577 80038 21458 30182 62354 92947 54466 29247 86275 48021
69556 15329 29910 32601 25975 72337 26158 52974 39018 71068
75555 19597 74900 87286 55438 86706 17588 79674 28437 88529
18555 82334 23723 39247 65378 91519 89435 88919 30118 51301
39756 52562 83426 67843 45032 54543 85310 06982 38413 55511
88498 54783 37427 54023 15333 45795 03938 80064 94144 88641
90909 22662 66035 43684 49439 58755 98002 32412 94468 75530
63355 83261 52632 03398 75352 43551 40666 01802 84994 12210
47828 65046 78922 73004 20751 40336 38346 32931 74180 75204
44943 95478 76026 36522 44677 23440 80172 68286 05452 70962
05470 80355 29559 89520 84364 85330 06847 37507 29594 25779
19544 48118 92381 58958 34692 35239 10573 91269 45099 41990
70157 79584 44776 61645 28601 41671 49780 85603 73429 42878
00409 58087 14515 51282 05668 42283 33476 78476 15982 27580
38658 48192 35042 32614 99109 59941 06773 83810 56001 39865
38315 74084 34924 95975 44998 31419 07507 19981 28209 51987
75780 02879 22119 77514 77744 56512 70187 21566 37552 58260
17395 74450 08765 61069 29132 41418 84115 36000 72689 93852
70208 39482 22278 38138 50596 22462 73526 31886 85680 23636
78387 02219 22857 13950 36390 45783 15362 84558 03181 15199
73240 95422 02284 21614 94880 26753 51021 08062 52562 00454
36533 73311 30428 63789 02836 50885 38354 52440 34842 72946
50122 75135 50303 73736 39354 87066 35594 12247 11632 44246
86279 18823 56251 56017 38411 95374 66038 77895 01477

16156 kHz, 24-04, 1300 UTC, FSK CW + FSK 100/500
UAL: MFA Moscow wkg UAG: Russian embassy Havana

56

13635 60511 30261 58988 43269 96641 92010 79784 40200 09615
16330 87998 61151 47669 42527 45782 19889 69652 89916 50065
77891 42111 62005 47269 86676 94680 42194 05544 17726 13459
79413 36706 40949 77064 87143 85082 37613 65053 04246 25422
58687 93382 91048 37088 64536 56618 59133 46700 06892 81568
58233 56428 39058 22027 68717 00113 65265 49316 73060 94403
65128 18327 04767 77110 54140 13723 98167 49947 66135 06017
87537 67854 68663 72191 28963 42094 47212 60564 43400 49304
19218 04576 04368 63689 63791 15185 18699 54554 78109 06581
73805 16347 96406 34861 49874 23418 32493 54410 20448 26664
31754 21619 89824 34265 43553 00669 40705 43679 49989 51049
90531 17107 11934 01503 79965 17587 18289 40081 41917 47933
49417 75005 24593 59692 90650 46008 66970 24298 56854 90862
50165 83629 13948 96759 73107 22152 08345 91252 25969 27818
40238 52423 59792 33934 41667 42991 75737 59172 45314 98020
82403 87905 54955 20936 94647 58069 53511 67527 72351 48732
09633 22628 22561 84552 68759 99152 13446 99325 39589 14195
73512 25795 11891 21855 74509 03925 66609 07498 21457 24813
64189 73121 98250 52436 22058 68530 42260 90421 17204 47990
46377 86016 74802 57066 11939 88453 28795 79320 00965 03908
65397 97558 61155 14211 85442 49320 22073 51529 46514 81287
85959 46183 70801 32316 61614 89804 29617 99758 14780 81004
40505 68780 33468 45756 37896 09353 31665 49666 03221 70602
39852 44335 65446 27222 55780 14978 07953 57610 53937 21510
42697 58441 77143 50275 37599 25348 58713 18602 08090 54403
48621 99385 08755 44096 42108 57871 86012 02472 34171 17837
77767 89147 48357 99353 70973 46872 13332 95317 53041 02328
85615 78942 18036 40850 41968 59389 13593 84771 89827 27732
39496 30060 69259 60445 33854 20945 44844 72594 07810 67221
10946 37924 14727 33918 58792 18024 64778 58012 78816

M42b

19101 kHz, 01-04, 0807 UTC, CW + FSK 50/500

F5KA F5KA F5

RPT K

QTC1 ZZC ZVP K

RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY

244 100 1 0755 8231=

1&214 48799 04114 10210 98485 58339 50593 14485 31162 57400

49099 76709 98167 57398 02919 19879 02013 9019

244 100 1 0755 8231=

244 100 1 0755 8231=

244 100 1 0755 8231=

244 100 1 0755 8231=

RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY

244 100 1 0755 8231=

244 100 1 0755 8231=

244 100 1 0755 8231=

244 100 1 0755 8231=

75214 48799 04114 10200 98485 58339 50593 14485 31162 57400

49099 76709 98167 57398 02919 19879 02013 90191 08134 08349

14208 33711 62565 87516 81496 00546 45288 01175 25973 67318

92161 86352 11042 86596 24113 79301 31557 85622 05509 70852

47679 14846 18865 75039 46496 69944 18197 20237 06505 28043

=50=

18979 85879 48969 90913 63034 75479 70979 95592 64280 17228

61386 95434 31638 54503 97735 94228 20170 87520 17172 14665

07490 19631 57364 36108 41650 87475 17376 58723 07035 78208

24100 11988 61719 57739 35839 52993 82794 93583 37628 58553

68863 92691 99588 08378 81553 42319 60976 36017 40690 71809
=100=
-0814

CFM NIL QRU? K
RPT K
OK ZTH PBL K
RPT K
R 684 100 1 0750 7854 K
SK

19101 kHz, 02-04, 0802 UTC, CW + FSK 50/500

S5W8 S5W8 S
QSA3 QRU? K
OK ZZC ZVP K
BK BK QRV K
RPT K
RPT K
RPT K
ZVP K
K
R 908 0807 K
R 908 0807 K
OK QRV K
R 508 0808 K
R 508 10 K
QTC1 ZZC ZVP K

RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY
245 100 4 0800 2841=
245 100 4 0800 2841=
RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY
245 100 4 0800 2841=
43502 23777 44974 88214 80985 96403 14886 20198 86495 09321
93103 60902 24922 54596 57219 71825 14824 21613 16700 07556
32653 74456 19001 74435 84356 47414 24601 97555 17449 71326
02147 90531 16788 89635 16470 34368 26052 84458 58646
35492 62700 18353 13399 06288 82654 63843
62093 91919 03468 64222 60745 01412 99698 91012 13769 82507
77761 46319 70832 94397 70078 15375 06293 66117 18911 10761
56473 29858 37687 94335 06597 83051 30770 00987 74532 25870
59600 58575 71848 85095 88933 37816 88560 72039 60244 14133
71186 42555 15682 66679 73909 53596 88016 85062 89848 20407
=100=
-0814

CFM NIL QRU? K
SK

19099 kHz, 03-04, 0801 UTC, CW + FSK 50/500

5NT8 5NT
QTC1 ZZC ZVP K

RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY RYRYRY
246 100 3 0755 9247=
75268 83902 73461 24670 81346 18677 54483 28618 11357 49307
50095 62329 29587 80574 58795 65708 45866 32896 91552 53222
88259 86185 98943 11854 36451 35592 12337 23351
14121 65270 80625 07177 39194 83731 04546 60117 41924 54182
83314 99083 10764 65798 65968 51491 89411 92090 50158 73542
=50=
31057 00049 13156 26947 10925 82836 29724 64669 87495 23337
15709 40126 87579 16674 75216 95929 75466 51675 27296 40200

CFM NIL QRU? K
OK ZZC ZVP K
BK ZVP K
RPT K
RPT K
K
R 181 0808 K
SK

RYYRY RYRYR YRYRY RYRYR YRYRY RYRYR RYRYR
Very poor signal. Message unreadable

12093 kHz, 01-04, 1229 UTC, CW + FSK 50/500
NT9P NT9P NT9P DE K4MT K4MT K (repeated)
QSA2 QSA? K
QTC1 ZZC K

CFM NIL QRU? K
ZVP K
(rest unreadable)

NT9P not heard. Radar interference

NT9P NT9P NT9P DE K4MT K4MT K (repeated)
QSA1 QSY 2208 QSY 22108 QSY 22107 K
NT9P NT9P NT9P DE K4MT K4MT QSA1 QSY 211
BK BK
QSA2 QSA? K
QTC1 ZZC K

RYRYRYRYRYRYRYRY
105 100 3 1215 5285 =
34899 40788 63073 92116 76737 35303 39312 08391 87901 93366
37876 56009 56727 41378 17141 48370 25077 14165 87832 45719
34051 63925 31572 10122 78229 81740 03095 62730 60433 88959
84811 93731 87963 29217 58088 07134 14704 48386 71986 96076
60948 22491 75355 97147 78674 73045 63840 88602 34527 64762 =50=
41069 79500 19209 68928 86542 10854 71987 73667 14816 46314
97583 81273 92386 67844 63709 70421 10973 29907 28236 70413
89293 16021 89639 28344 44090 91970 44431 64404 26441 70209
29244 99739 31805 70850 27445 45586 05101 19793 37908 90798
11473 82659 18548 20564 45189 33369 11085 81550 12642 44108 =100=
-1235 K

CFM NIL QRU? K
ZVP K
BK ZVP K
K
R 491 1238 K

NT9P NT9P NT9P DE K4MT K4MT K
QSA2 QSA? K
QTC1 ZZC K

RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRY
617 100 4 1215 4987 =
617 100 4 1215 4987 =
617 100 4 1215 4987 =
14005 95181 01559 61388 03704 22706 62606 37452 80149 08798
18495 12003 54386 98181 54142 02585 91906 07673 16464 08987
47839 07690 59140 35838 78386 61492 63569 35123 46212 51778
95734 57343 06804 07275 37390 46410 98442 73765 24325 80648
26779 31341 88698 57716 88253 84665 82102 67923 28485 47732 =50=
71868 45881 07637 47199 12737 48894 91434 94209 52381 64311
87179 91030 56024 78510 44024 58383 43617 08359 12929 40272
03323 72862 92855 20100 71881 55661 32840 59950 86654 96094
88675 31457 61183 03412 16982 04114 43119 86637 28644 98870
67647 32323 98927 61921 77862 34077 74830 44622 27061 09090 =100=
- 122333 1234 K

CFM NIL QRU? K
OK ZVP K
BK QRV K
K
R 598 1238 K
SKSK

[illegible][illegible]

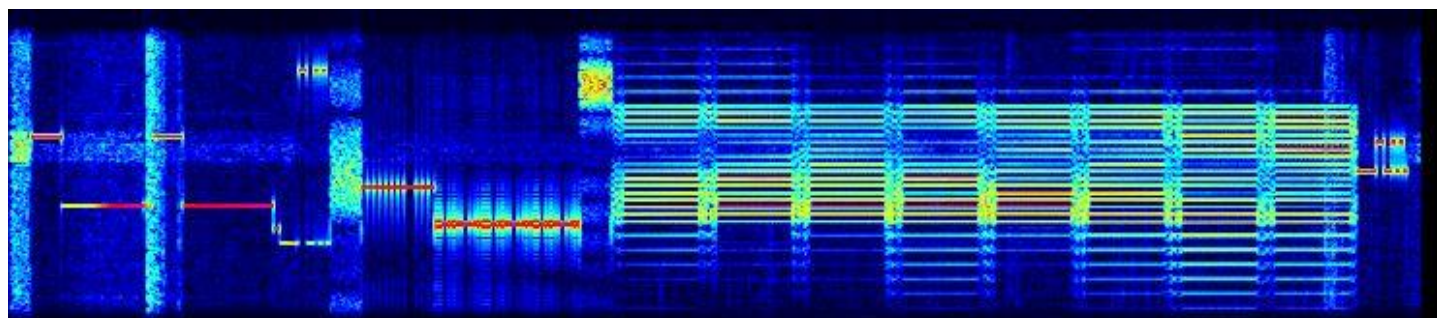
350751=
VVV VVV VVV RR46 RR46 RR46 DE RWB5 RWB5 GD
350751
CFM
350751
RR46 DE RWB5 OK
NIL GB73 SK
350751/
350751/
350751

14780 kHz, 28-10, 0854 UTC, FSK 50/500
121743
VVV RHK6 RHK6 RHK6 DE 4282 4282
121743

[illegible][illegible][illegible]

P07

10446 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1400 UTC
9379 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1410 UTC
9109 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1420 UTC
8166 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1430 UTC
7718 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1440 UTC
6969 kHz, 02-04/06-04/09-04/13-04/16-04/20-04/23-04/27-04/30-04, 1450 UTC



13368/12168/11168 kHz, 02-04/04-04, 1210/1230/1250 UTC

311 311 311 1 311 311 311 1 311 311 311 1

00379 00221 64438 30808 03695 30583 11625 57686 59397 65773
45820 46004 48168 43229 14499 69945 91039 63047 65625 87790
57456 15284 52212 57524 06936 83148 93650 49417 44624 46322
06200 47763 84288 03172 02247 77087 60610 17132 14641 41359
70271 65458 43654 54148 07037 26009 69828 25976 53738 97428
87829 99710 28298 51552 35712 16516 55905 96146 80388 31006
89882 59321 88948 44589 13936 86470 44048 91971 57672 17935
49831 13429 27456 33730 92739 92388 63668 00638 37126 66509
95569 53571 54645 16505 30921 87012 72900 14315 83594 12120
14288 05371 03767 00181 29724 93864 76464 77344 16320 98631
44080 63621 84911 47654 58641 78343 72824 34798 04710 27760
48257 41859 47891 47894 20088 19494 26174 73894 77641 99005
38037 82036 26663 75308 80539 39930 70402 65316 21307 23774
56772 56040 13911 73135 45983 35787 08952 26019 84862 40494
59034 98708 81367 30111 89205 33449 94463 65324 64488 55168
40664 71212 29537 15649 91547 72425 70646 98026 89682 27073
71996 41872 60127 44105 01014 36145 37068 44843 62850 26022
45086 12696 28440 85098 83972 29323 92844 41259 29592 99254
83999 02169 97892 06582 84422 73388 93256 51941 30009 57165
86795 79449 01249 09550 11665 72158 99956 84366 62135 59205
45250 61980 86611 72645 80181 51032 71589 71837 14322 82800
36887 46363 05464 68786 11371 43011 93088 23818 94668 56815
94944 44090 65932 27611

13368/12168/11168 kHz, 09-04/11-04/16-04/18-04, 1210/1230/1250 UTC

311 311 311 1 311 311 311 1 311 311 311 1

00762 00182 47610 77984 74249 69483 34484 13064 93853 32122
09205 11967 67957 38435 90032 70489 43233 28570 48461 60675
22881 28869 58262 71382 23508 39121 76420 46051 71867 46083
53767 87404 34696 96672 40331 64812 80946 21861 98142 43962
20626 97868 20045 33445 99086 43962 64611 15386 48345 06826
14765 04212 82578 28199 26924 84727 87460 63956 12712 84429
35279 35473 20647 80205 65866 80242 90465 71673 24989 78515
24637 55656 62082 08610 85931 79290 84238 78843 51977 87137
77788 42809 00187 75425 29458 46433 30349 29368 89836 85486
94000 21561 77890 53801 46083 02082 39801 36384 12469 68431
19041 92122 71087 12239 74259 56613 89751 93614 99540 15340
40834 44805 88667 23167 85023 55463 57477 21923 96624 68605
72799 89697 66119 85972 24716 76333 41595 73695 95037 87940
90244 88939 63904 49387 92801 39457 68527 76289 50324 55877
05559 55818 22746 83803 48027 49403 23971 83824 95163 28136
83731 46880 26806 51939 16077 31659 96328 50366 76821 06205
46454 83593 97238 61258 45614 57297 37839 53095 50040 15962
65828 59880 31533 38279 46662 75062 30618 36521 36921 69652
77947 62607 43992 74388 44704

13368/12168/11168 kHz, 23-04, 1210/1230/1250 UTC

311 311 311 000

07148 00001 00000 35663

13368/12168/11168 kHz, 25-04, 1210/1230/1250 UTC

311 311 311 000

06429 00001 00000 37660

13368/12168/11168 kHz, 30-04, 1210/1230/1250 UTC

311 311 311 1 311 311 311 1 311 311 311 1

02720 00074 27483 98370 57824 16628 89788 76398 37353 28066
29560 83921 85143 71249 05499 45235 11416 16672 85916 85523

51873 70408 05653 53302 02335 14180 53554 95356 28585 58309
75875 82476 47649 23675 60379 49343 93000 35946 86877 19255
81428 35566 83397 14379 04298 45259 94440 92835 39592 89638
96267 29340 60282 55881 48431 65130 85587 23386 32998 21526
98669 54091 47900 83298 40619 81007 03190 88771 96505 62039
20193 80545 00780 39839 43131 80855 27515

XPA2

16341/14841/13941 kHz, 1100/1120/1140 UTC

16341/14841/13941 kHz, 01-04/04-04, 1100/1120/1140 UTC

05389 00073 00889 28708 95511 76285 13411 13151 06961 64622
96625 57836 15057 53363 11471 95903 73776 89983 50949 44622
70926 85295 33316 46055 64520 39209 85500 05504 58665 31724
20787 47396 16386 99981 10495 53412 18905 11294 86386 31726
42242 62881 02470 69026 39681 31716 42862 44834 90581 26286
25553 18233 81713 68132 73845 36680 60841 22888 44736 18552
44024 28025 54468 30714 18746 89633 68668 55711 97720 33375
20675 23448 69447 12866 66153 44527

16341/14841/13941 kHz, 08-04, 1100/1120/1140 UTC

06894 00001 00000 10140

16341/14841/13941 kHz, 11-04, 1100/1120/1140 UTC

05990 00001 00000 10140

16341/14841/13941 kHz, 15-04/18-04, 1100/1120/1140 UTC

02597 00035 52639 86799 46921 06897 79159 60156 26980 27148
15951 23329 88949 71372 32385 72618 70915 99472 79007 91600
74418 75311 69881 84912 06703 76325 69433 38141 48358 35375
70758 46360 91700 08660 44489 05300 14053 37336

16341/14841/13941 kHz, 22-04/25-04, 1100/1120/1140 UTC

07567 00097 61327 80587 80248 53256 21062 40373 82849 24459
50545 66625 54063 07259 23716 45648 11925 31893 47943 72166
30404 18481 26664 77788 97853 98325 84583 42781 53761 27090
58646 46067 93781 43758 06278 55071 71759 49532 83064 00293
36405 92469 06504 93214 43916 37009 08768 21714 98495 79823
44179 87569 13403 41569 43496 41025 81186 75342 48127 80778
12186 38640 84733 35366 29835 83762 12022 42815 92180 95616
19810 35396 04226 76078 75833 54855 88438 67285 60754 95346
75728 28315 85629 18615 56481 77488 82377 51686 20707 50348
13146 03205 58656 86636 76076 53477 39718 36433 74945 44333

16341/14841/13941 kHz, 29-04, 1100/1120/1140 UTC

01901 00001 00000 10140

19372/18291/17453 kHz, 1700/1720/1740 UTC

19372/18291/17453 kHz, 01-04, 1700/1720/1740 UTC

01987 00001 00000 41261

19372/18291/17453 kHz, 03-04, 1700/1720/1740 UTC

02023 00001 00000 33254

19372/18291/17453 kHz, 08-04/10-04, 1700/1720/1740 UTC

06646 00125 08592 95213 45085 73675 35572 63553 59240 74971
07044 63357 32639 11824 62155 28776 31933 72651 42734 32654
01239 30408 46518 83920 69305 11421 35625 57291 57509 81681
85846 84552 54210 85368 87282 50102 75685 63241 93017 94241
20142 15077 31207 69876 74333 84379 67761 98980 15157 25448

77613 11926 94855 99470 24767 36965 54073 85428 48548 88934
61393 39064 88260 75458 83435 93470 89004 69818 23339 41662
06198 42425 23474 34686 07051 67865 83462 21175 84221 93174
13556 55182 30725 12521 24147 88154 02378 01168 43721 58099
57635 66412 58527 32278 97244 14371 78500 63891 76799 81051
46437 24199 95204 09753 17191 09519 75322 04059 87102 83704
29218 38002 91318 46204 39958 52965 54504 84124 27509 51623
01744 80111 51313 17104 26987 02016 46955 46430

19372/18291/17453 kHz, 15-04, 1700/1720/1740 UTC

05495 00001 00000 35666

19372/18291/17453 kHz, 17-04, 1700/1720/1740 UTC

04223 00001 00000 36655

19372/18291/17453 kHz, 22-04/24-04, 1700/1720/1740 UTC

00813 00180 61720 80217 74811 05601 43177 14505 95321 92915
11048 23171 63421 98309 59701 65080 83499 69075 37078 99059
65027 87518 45170 58147 10768 00629 85995 93247 07855 29905
50603 69137 10370 40651 21572 02751 73325 28341 65321 16631
69496 21161 35519 02108 96483 05974 02005 60266 92614 52757
37961 05606 53595 60640 17429 17947 01904 42053 59476 21579
70306 65547 82510 98158 21490 54553 48363 69925 72796 23580
79096 78970 74136 19939 73099 55601 75448 17829 02525 52423
97479 08113 94004 33038 91590 71417 06696 85704 20076 87075
12379 09013 70155 61642 68244 69789 56754 73336 07118 50820
84016 64777 50984 62097 57865 86661 30313 88051 59370 22043
03492 87602 20646 58810 95121 86728 02590 37754 09240 14707
46729 63956 36693 22380 57621 39730 37408 58523 43383 41904
61863 68143 45297 47509 33294 31321 26093 96266 42494 15920
48277 15717 67691 48375 20543 44913 00298 36063 24106 07452
33342 91836 06954 13455 07182 46752 11216 46619 20380 39676
24384 07021 61133 53996 25662 39918 45448 71738 85302 38615
81163 32671 56920 53305 79829 30556 38207 48646 05016 75781
41655 78077 16244

19372/18291/17453 kHz, 29-04, 1700/1720/1740 UTC

07941 00001 00000 36263

11409/12209/13409 kHz, 0700/0720/0740 UTC

11409/12209/13409 kHz, 02-04, 0700/0720/0740 UTC

08177 00001 00000 35267

11409/12209/13409 kHz, 07-04/09-04/14-04/16-04, 0700/0720/0740 UTC

00144 00086 02814 96821 96743 47654 55761 03745 12669 02906
40326 80110 46530 53365 09635 67079 41173 96110 38614 77138
17197 02947 94732 58876 89467 87880 81114 12081 93355 99097
06196 15124 27559 05844 41119 58875 42440 14003 59085 42835
57832 30124 06650 97278 84825 60519 04996 38886 17188 24244
15995 27084 58005 71668 13629 16624 85681 47247 80185 41116
24474 63538 46813 92681 89226 49429 12822 14955 68615 53844
22891 18180 78273 03919 78688 69305 96330 44339 30338 33609
33577 64063 74230 42632 20486 23349 31506 28408 21127

11409/12209/13409 kHz, 21-04, 0700/0720/0740 UTC

01889 00001 00000 41661

11409/12209/13409 kHz, 23-04, 0700/0720/0740 UTC

08096 00001 00000 34271

11409/12209/13409 kHz, 28-04, 0700/0720/0740 UTC

02753 00001 00000 36257

11409/12209/13409 kHz, 30-04, 0700/0720/0740 UTC
03444 00001 00000 35257

18038/17474/16286 kHz, 0910/0930/0950 UTC

18038/17474/16286 kHz, 02-04, 0910/0930/0950 UTC
02106 00001 00000 34652

18038/17474/16286 kHz, 07-04, 0910/0930/0950 UTC
02290 00001 00000 32263

18038/17474/16286 kHz, 09-04, 0910/0930/0950 UTC
04677 00001 00000 37663

18038/17474/16286 kHz, 14-04/16-04/21-04/24-04, 0910/0930/0950 UTC

05528 00164 22531 62256 48999 24979 20693 65862 38247 53575
22117 23779 24051 76466 32143 46162 04123 40214 79500 27611
91093 26794 85083 58736 76773 91840 96644 48629 37342 45254
97698 92085 21206 74701 86240 00092 79132 72992 06392 61896
48879 54490 11759 54701 73148 09147 14654 73531 11940 90476
03735 90252 60124 78892 86748 66371 28709 78245 48914 60784
07754 75517 92008 00874 31414 30432 24734 72594 50369 30354
69056 15703 04551 66039 74221 38571 20895 70372 52326 65749
22230 94990 97879 66340 01020 44375 42665 61398 97825 28298
87079 52517 65142 73221 53345 25966 17083 89820 85687 87877
42534 42407 02532 66424 92249 56757 24122 83849 29426 95793
63223 78994 45642 78687 05778 66780 98302 49422 50362 46509
56111 15270 93535 22937 43876 06000 26054 54133 87394 51659
44050 14104 47174 81899 45585 12051 37305 43488 75255 81255
89446 80777 59339 15352 24418 38774 49883 58726 95268 26789
89750 62212 70713 17233 85732 59509 85630 17908 79109 52667
33127 99231 49685 21074 35800 42324 46625

18038/17474/16286 kHz, 28-04, 0910/0930/0950 UTC
05951 00001 00000 36262

18038/17474/16286 kHz, 30-04, 0910/0930/0950 UTC
06485 00001 00000 35666

17426/16326/14926 kHz, 1100/1120/1140 UTC

17426/16326/14926 kHz, 02-04/03-04, 1100/1120/1140 UTC

04108 00177 85714 66698 78484 29374 85140 44113 26953 16384
53857 42265 68573 30251 90626 39142 45461 68373 58724 62153
12291 03074 36313 11992 02448 40057 79636 35887 84082 68424
68200 31530 06300 92314 65574 20717 63993 97518 35523 12623
47714 30608 50339 13778 26442 98327 69922 49902 53028 10988
28164 84683 75222 35881 73296 13754 08952 85327 66321 87087
67714 51383 87988 83082 58439 15774 04087 02306 44691 85698
55511 38558 06692 78143 66544 76855 34445 11760 04189 09166
14692 91409 21629 20192 27349 89805 52886 87363 10674 89843
32018 15523 84177 72536 40642 85199 55353 64833 08704 96909
54578 36149 39205 88027 67100 31553 61262 38233 25522 84474
72205 42893 77143 28417 51266 11455 09615 34042 18171 63585
59271 65216 50006 28962 90686 99462 06718 16113 00997 61108
90499 43180 92621 51236 07639 40253 09551 14088 40761 36525
34955 69334 04621 80929 97397 47372 55343 89637 58853 00884
27506 27245 55078 85210 72075 85636 13066 59134 22973 34108
55964 84127 40002 28627 71136 73958 05317 79508 99753 73681
74737 53244 05087 59110 07018 31939 68950 45158 34579 75022

17426/16326/14926 kHz, 09-04, 1100/1120/1140 UTC

03104 00001 00000 33653

17426/16326/14926 kHz, 10-04, 1100/1120/1140 UTC

03590 00001 00000 33664

17426/16326/14926 kHz, 16-04/17-04/23-04/24-04, 1100/1120/1140 UTC

00296 00145 17720 17986 09490 78143 86064 09208 69606 33138
80718 29792 30692 17453 63570 61114 64594 56805 34464 91786
02419 10203 49194 19565 55531 82799 38511 91616 80013 82174
79110 69368 12598 91078 67532 08598 34834 51221 47522 02950
98992 49950 59019 06739 25494 48067 16046 53097 23881 30557
92729 38398 77398 44123 67767 71050 24463 97085 49459 96801
83725 76816 09474 81341 79063 19072 09383 84331 23037 57138
42140 02165 12887 56272 85512 57614 58684 75435 51902 49926
57917 34778 77598 02063 13919 04530 14175 52188 26325 33511
42172 27395 29294 80822 62676 40064 41821 18511 05412 98504
21436 66437 18806 26912 47614 16321 20634 47212 78809 38873
74539 65098 07028 24940 38032 73021 44335 52308 55154 34643
54914 13465 57696 70567 23995 37846 85029 91588 90745 21106
92188 75228 81049 04462 59340 43388 74327 45404 79634 35705
23911 63001 75099 25781 01636 93512 85124 22546

17426/16326/14926 kHz, 30-04, 1100/1120/1140 UTC

03833 00001 00000 36256

15872/14972/13872 kHz, 1800/1820/1840 UTC**15872/14972/13872 kHz, 02-04/-04-04, 1800/1820/1840 UTC**

02264 00196 87752 23024 85199 05257 96982 97438 51629 15226
28327 74185 56682 06214 44022 74315 40833 46226 76724 52857
90480 92331 73996 80477 02397 99817 49582 86916 23765 62854
13788 37004 37448 57608 86564 59449 44536 94804 98176 92045
24800 32692 97865 94338 94042 79485 01154 75550 96667 76539
06345 54409 40509 33613 68114 54145 11779 20211 54707 71593
05918 59298 15868 52204 57727 57184 25716 03934 57602 24815
20389 79277 82148 37551 15161 51944 60786 34711 65488 88045
25372 46105 93513 15826 69849 35343 09500 23848 01008 58293
04834 84901 63772 43647 27771 05341 16641 25343 62312 69408
48907 93538 67325 50488 64582 94224 64296 99603 21034 30205
72059 27892 65582 30463 24057 83269 83870 19951 49783 96183
61829 49574 52512 49581 51222 67246 98937 93485 22784 18838
98024 15509 09262 37764 39861 32003 84536 32283 34905 10401
50094 82572 65599 54445 81211 50235 90143 57325 86313 42635
22185 19172 81083 15777 48171 83483 18994 49315 10239 83092
08256 30308 53539 74921 08422 45467 97910 03168 25474 01763
06774 94015 60962 08588 24454 00716 63211 82623 33846 45843
70788 62422 54606 65552 52229 52188 66281 02233 66282 56669
42484 40288 10497 53824 83532 60014 13114 72365 31345

15872/14972/13872 kHz, 09-04/11-04, 1800/1820/1840 UTC

00601 00235 63180 01036 11652 32073 85552 56212 76748 43822
80012 22903 58850 11605 26650 67629 90605 32117 05635 00945
27062 55761 41692 09962 28133 39480 47108 82410 62610 68023
42056 48831 77874 10415 83517 23829 64486 89360 52349 15351
67712 94071 78169 51552 35682 87059 02045 04211 67618 47734
91397 21132 42618 07136 29941 90404 20666 17068 14055 26365
26276 51995 26818 01826 07563 25266 35906 09052 10936 08981
83094 29079 49424 77368 60691 81838 63962 28720 26894 99367
02672 31884 29559 32887 80631 32971 24406 40515 70451 27959
29009 49417 51278 94108 02629 74538 63120 89491 37362 18861
00739 89060 60108 62297 00636 78511 94511 81399 91834 89671
88301 96065 22826 57155 64430 30193 77861 93327 68336 88599

30561 07900 10890 09750 42584 03271 04304 76896 10870 52209
42328 50353 16143 18394 53029 69361 80366 04226 68410 78649
88301 92828 88944 76022 66022 03619 08242 86301 72120 83151
44882 46550 10873 53976 13380 16577 78636 22013 72109 38881
33854 89922 22047 77770 92187 37474 37476 53905 28755 80303
33669 97385 02602 80702 97662 54287 10163 60001 28220 88091
86464 66228 94733 42256 39786 14116 36420 40866 97509 84300
15979 62229 53622 54974 50457 90475 23575 72237 37328 27267
03554 22907 66222 43651 03658 41530 08337 80792 53499 23247
96864 45558 73696 61633 48834 64833 59519 42746 58129 49344
05575 82832 55580 72244 22806 37393 09204 55196 19258 82653
06640 43356 58061 04083 56640 46035 00141 45607

15872/14972/13872 kHz, 16-04/18-04, 1800/1820/1840 UTC

00647 00165 60180 26547 99333 62504 06859 79719 29748 33204
22487 42844 07923 42125 98758 89558 88911 66808 77119 84929
12885 82240 17200 19145 06868 22346 62552 68022 05015 50073
18955 00070 66184 24371 83760 64121 53209 53525 46994 81846
62479 21258 15482 92478 87322 37064 28580 52512 06891 05515
42261 33634 86674 31296 53734 19774 73001 34229 86056 54437
55242 09088 23495 43785 38093 83512 94534 81597 14428 89990
92614 13729 34951 36893 89752 79953 24810 11072 61157 14595
46145 35887 32083 60957 92155 87322 03597 44938 84001 52008
98306 64202 07373 15360 35816 32943 42754 20906 92053 54590
70670 90650 82263 77705 80781 54173 54902 60299 68935 06990
42765 44273 73998 92890 10124 75858 56923 43139 15314 61133
32147 44168 51940 05743 93361 15169 80530 80628 61394 72305
35450 07286 27789 91813 01305 26793 80453 36464 31329 60801
48330 12841 47864 34794 95381 51006 54810 93365 33183 35802
41799 77542 32875 42654 25757 96588 91466 24099 28498 09325
56972 36796 39586 72250 03849 75175 17597 50752

15872/14972/13872 kHz, 23-04/25-04, 1800/1820/1840 UTC

07565 00150 10345 83477 52396 19429 86331 43574 74601 34320
18625 85156 32751 21485 02598 93272 73175 47565 98456 16939
91426 59983 68490 89504 47824 30274 66168 89456 38022 56410
57071 53542 15550 98241 59723 16458 72927 79285 21070 93228
37304 15192 54146 48934 69186 75264 17688 61300 93782 84067
20087 22086 59995 91009 85861 31136 46961 05326 61669 53358
99825 69937 24984 85039 83659 83240 41909 27909 11815 13106
86794 40486 49358 68234 02061 00502 34621 61513 16191 74116
26269 08221 38148 00673 36338 62988 95262 11955 10297 09204
65965 34039 80707 86911 69270 50682 31753 73811 34814 73735
32197 99123 63575 44011 36669 30325 66763 93303 73918 54497
53959 17888 32328 04567 94042 45696 03016 75870 30843 66536
51855 65284 04651 55822 80796 47255 05233 17393 93622 71487
27601 76715 19223 80724 49680 80389 56548 91819 59523 45152
13346 21186 16658 52966 69906 54140 28782 68197 62499 15154
53978 94739 32543

15872/14972/13872 kHz, 30-04, 1800/1820/1840 UTC

00764 00112 09487 19533 24465 37561 97295 30595 78942 06582
22746 87263 26636 23239 94324 58005 77171 27529 05838 02059
94100 06403 33460 32104 93633 31135 26007 69307 05929 42623
88648 60215 49533 81800 60013 87533 17852 56607 90223 19181
36258 67872 41274 79954 81275 12437 67109 82702 44722 43636
23724 20756 37806 24753 33160 62138 82222 53187 68925 92055
76790 56517 88845 82723 67492 95078 49980 91616 03059 68131
70805 76734 52369 70441 13838 72365 50476 70010 80120 51878
60425 18782 78161 51069 29635 07630 19113 31877 40269 34959
22785 15233 20669 81024 04670 29577 92518 72785 02965 91871
52621 79872 68464 68264 95097 65625 75245 23818 33929 70776
19628 95055 96254 93810 10660

15859/14659/13459 kHz, 0910/0930/0950 UTC

15859/14659/13459 kHz, 03-04/05-04, 0910/0930/0950 UTC

00712 00200 41029 58072 87215 66864 41760 37825 89534 42776
57993 33349 88567 06918 23211 72999 26038 80204 68708 53591
49563 76962 91412 89355 82561 44262 48896 45032 91110 13363
83575 56548 00756 52743 47908 46349 27950 15381 36790 89687
58833 57970 80903 83948 88570 98117 64513 94512 06256 59355
73735 90757 01144 38075 15606 79399 89594 09384 41008 67791
11098 94234 18215 50179 83270 40722 15384 51872 60489 45428
94538 42429 61202 32813 49600 70862 87640 10427 43040 62288
96500 15365 97902 35115 78477 84064 28482 54724 37782 86987
65228 42813 45855 89233 92986 26368 04311 55288 04036 19877
11715 21764 01325 30303 17872 57614 60773 52289 12016 41657
90211 39111 90776 65550 24693 35739 48243 33117 14845 30082
22664 36522 89461 88382 67719 83262 31487 74926 91021 97933
98204 89508 29355 54122 31723 10254 96484 15103 97097 78702
88137 81412 50350 51785 61057 43054 56465 15817 28251 42927
99480 16614 48921 12897 70214 48119 87547 16146 13969 09821
99237 70199 00140 70708 05144 29764 85103 31622 36000 44349
79070 74951 84583 50584 31707 15048 73176 46545 83479 74258
91778 15689 90592 67099 25302 37962 58000 12925 46275 25362
28193 33148 44898 05928 71511 75230 66906 90998 59973 65816
03925 65570 47045

15859/14659/13459 kHz, 10-04, 0910/0930/0950 UTC

02321 000001 00000 33254

15859/14659/13459 kHz, 12-04, 0910/0930/0950 UTC

06542 00001 00000 34662

15859/14659/13459 kHz, 17-04/19-04/24-04/26-04, 0910/0930/0950 UTC

00196 00187 38503 71852 27559 71218 32979 42095 15643 86678
03350 23432 36930 79319 56855 64883 17020 11887 57837 18039
12222 14735 10432 10860 98393 40242 76324 61553 71392 86192
97163 01793 22595 33238 62593 59552 76291 93724 11589 33196
73676 86382 61833 25774 40671 28946 34172 17979 22579 88077
24105 54066 18482 55117 05998 94372 00551 31847 14935 52272
09484 87824 34820 41294 57998 60440 36008 71393 15443 61020
64939 12880 55224 08044 43225 19317 69833 89725 09204 96579
14408 93084 94214 24126 16704 35109 31562 25545 75423 88756
43256 24349 24629 43473 15329 11523 11077 45990 62144 69821
21966 16385 05665 64344 24804 03359 99188 39708 79246 08205
97517 87709 47891 17271 20456 02617 62271 12742 34174 90238
46916 46119 81729 33265 76630 48182 40579 03934 92606 33597
87458 38383 45679 71552 37662 33781 42148 67509 87382 45987
28855 35094 20041 80273 44495 43414 68475 77228 63148 27874
07107 76901 92966 74112 31316 37529 92735 24401 33954 83529
90679 69928 46678 68749 22014 67943 64515 41810 94575 27737
49698 87786 17835 35446 07120 64609 43533 38316 80426 14625
66030 05126 54550 37756 14600 71123 67321 50244 74376 40434

15881/14481/13381 kHz, 1500/1520/1540 UTC

15881/14481/13381 kHz, 05-04, 1500/1520/1540 UTC

06775 00001 00000 37265

15881/14481/13381 kHz, 07-04/12-04, 1500/1520/1540 UTC

05280 00135 61870 07155 98150 27831 49730 05366 28867 99575
03641 55470 61519 34184 01451 92907 11050 16985 89920 68663
33798 45000 91535 51237 03718 05988 25395 71213 83593 71002
57637 03158 88861 73976 05307 01296 66483 50950 68777 86956

28021 04337 75830 82727 18911 09080 14692 87485 28407 15456
83253 70629 55582 26209 24189 27479 98047 25804 19595 23876
46898 01697 52005 76983 49892 23847 82974 19731 71632 09883
16871 52726 63297 58615 86699 12805 69370 82593 37778 68237
68547 42436 89173 76775 90773 59547 25348 83884 81418 78781
20467 77317 76561 21679 30812 25377 31435 40725 71495 13619
29442 88562 37108 67853 53131 22486 88640 24041 32928 71196
29306 23623 58275 76998 69354 04764 57309 44646 64835 46415
86693 32839 01355 66056 39622 91588 55796 41277 50469 32535
14218 17293 11139 87800 16738 25207 10843 30675

15881/14481/13381 kHz, 14-04, 1500/1520/1540 UTC

08213 00001 00000 33661

15881/14481/13381 kHz, 19-04, 1500/1520/1540 UTC

08799 00001 00000 41271

15881/14481/13381 kHz, 21-04/26-04, 1500/1520/1540 UTC

02677 00127 37434 27539 35113 10075 21258 36909 16931 95629
66606 23960 19398 19643 14849 84552 59131 25093 01206 76954
22293 88965 14616 14438 92455 44303 92226 40220 04536 49426
76589 62234 09146 26882 25449 40990 94681 34842 68808 40494
19937 77787 94550 34664 49109 26343 21733 60671 89625 73176
84697 95808 23941 63577 59806 18995 73298 85455 84395 87084
19749 33494 85556 76903 55016 29466 86468 75836 85455 48334
86482 47981 13877 72320 25209 21225 33212 39575 94298 04443
35452 52797 87442 48011 76545 05323 25177 90292 03268 00288
97755 24750 37982 42436 69948 21642 52465 00121 24395 66353
71684 42681 88478 84178 51616 99144 96295 87013 82681 94351
79309 18834 31088 65972 82760 72671 66069 09608 05820 57985
32751 48555 09859 01258 66523 37227 52470 85165 11781 47532

15881/14481/13381 kHz, 28-04, 1500/1520/1540 UTC

06492 00001 00000 34267

Test / exercise traffic

Weird pattern, going back and forth between only two frequencies.

9338/11574 kHz, 08-04, 0700/0720 UTC

06825 00160 93832 78404 00288 45893 53983 20436 13146 65242
65047 14102 59240 96090 25853 97548 85162 25477 90333 93831
96032 96266 09788 03225 71024 96909 75536 30727 17048 85318
38412 90392 27107 52166 92289 61042 52383 87533 59433 69042
00040 81247 73855 53711 53938 31700 04432 42397 17610 77716
61572 84805 18170 23709 83369 28290 10373 90606 07380 03378
70356 23256 03387 27827 26830 74653 86993 07074 03801 64809
45164 97627 66042 21290 93791 14784 22411 56076 49285 39323
92476 33138 13116 39331 23745 53605 72222 03398 68796 63998
50668 61775 80152 56055 98684 76782 77860 46027 26881 79284
44706 97357 38595 52799 32551 63944 18762 96878 29916 68584
05879 54296 41320 68056 10900 37217 10139 64055 04081 73223
02431 83594 38277 39802 14141 83388 17474 09986 22605 17008
36923 76382 29194 70000 94616 95117 94542 60315 06779 59800
34843 75342 73480 00211 58118 96370 20454 12096 45155 61466
66643 13804 41945 53656 76852 61110 59080 98792 38658 49162
46469 08775 71176

9338/11574 kHz, 08-04, 0740/0800 UTC

00033 00151 36122 80003 46822 52117 43403 53045 14235 21874
60785 66787 55866 83322 09016 68479 60257 43839 57790 66486
25318 37431 73000 89063 82543 45836 33090 36645 21080 80822
70046 51158 66842 61192 86739 33887 84230 21331 36334 88783

08812 81138 80669 44606 64662 86633 02423 25043 88880 02440
11355 64150 36186 74829 71886 90808 18556 48057 76459 00886
28136 15658 21855 23300 60837 87536 08733 83663 75480 53008
62237 28815 15385 68887 57583 33280 47770 27485 13300 85908
33313 08037 47752 28539 67466 85884 25860 81011 00285 05820
24330 46172 33880 35337 58546 82143 40182 66367 84667 66025
76899 08848 37560 25753 28112 83449 57655 66188 25345 27716
32137 90059 22546 91449 56582 11188 67884 02216 55822 54732
62665 27810 83366 80560 37777 26055 74822 78846 08360 54329
83086 81302 33626 38375 08889 34554 60465 11888 00326 64816
36238 57770 55677 62578 62782 33279 13436 42320 78853 38447
24158 47766 00322 62505

9338/11574 kHz, 08-04, 0820/0840 UTC

01896 00154 22560 38493 32676 33650 33924 95771 88699 37817
88822 19385 78251 71270 14348 59030 21111 52662 43000 27426
96685 96758 63123 20871 87977 49270 62857 12058 20508 91321
01034 23592 77574 35949 49943 40746 25492 53408 20368 83353
80340 86063 96898 22418 41586 59139 68684 15359 41502 66393
40439 24065 17621 47002 15481 18251 46729 01688 50514 83404
70791 21866 75262 97377 36782 65230 41809 42301 21326 73601
33537 67701 32293 59646 47084 10622 99859 40705 79284 28838
80584 47497 70555 54113 50881 76967 05971 30572 20468 31692
94015 23804 02893 36962 12561 58474 10800 99519 85634 76354
17329 26383 94032 67899 32855 72736 91770 57973 99916 04858
18390 06024 22403 21676 02819 23294 51310 21149 46495 59814
59259 11236 21833 89632 79584 09733 64808 95329 47085 88609
99821 00339 55069 02930 11508 54201 53463 02655 21257 78143
85196 47996 30655 15609 13301 87990 01400 81215 34143 89265
07163 89650 53024 25820 17095 06093 31407

XPB1

20038 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1300 UTC
19538 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1310 UTC
18268 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1320 UTC
17468 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1330 UTC
16268 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1340 UTC
15868 kHz, 01-04/04-04/08-04/11-04/15-04/18-04/25-04/22-04/29-04, 1350 UTC

13562 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1100 UTC
12162 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1110 UTC
11562 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1120 UTC
11162 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1130 UTC
10562 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1140 UTC
10262 02-04/05-04/-09-04/12-04/16-04/19-04/23-04/26-04/30-04 1150 UTC

19517 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0500 UTC
19317 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0510 UTC
18217 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0520 UTC
17417 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0530 UTC
16317 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0540 UTC
15817 kHz, 07-04/08-04/14-04/15-04/21-04/22-04/28-04/29-04, 0550 UTC

X-- Russian intelligence

Mode: MFSK21/MFSK-13

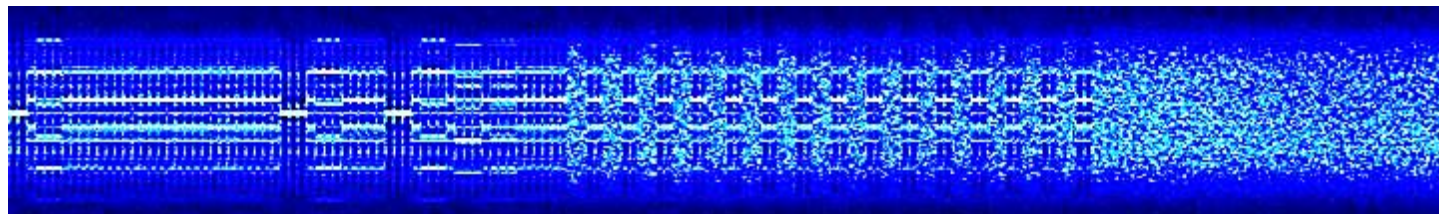
18237 kHz, 03-04, 0830 UTC	14383 kHz, 03-04, 1453 UTC	14913 kHz, 04-04, 1230 UTC	17524 kHz, 29-054 1032 UTC
17433 kHz, 03-04, 0834 UTC	13397 kHz, 03-04, 1457 UTC	14913 kHz, 04-04, 1235 UTC	19083 kHz, 29-054 1044 UTC
13397 kHz, 03-04, 0851 UTC	18541 kHz, 04-04, 0759 UTC	17423 kHz, 11-04, 0820 UTC	18569 kHz, 29-054 1236 UTC
18563 kHz, 03-04, 0932 UTC	17524 kHz, 04-04, 0929 UTC	9179 kHz, 12-04, 1616 UTC	16274 kHz, 29-054 1240 UTC
18567 kHz, 03-04, 1005 UTC	18541 kHz, 04-04, 1004 UTC	18561 kHz, 22-04, 1015 UTC	12138 kHz, 29-054 1243 UTC
14547 kHz, 03-04, 1017 UTC	17524 kHz, 04-04, 1009 UTC	17492 kHz, 22-04, 1438 UTC	18541 kHz, 29-054 1427 UTC
13416 kHz, 03-04, 1022 UTC	13891 kHz, 04-04, 1013 UTC	19083 kHz, 28-04, 1005 UTC	17524 kHz, 29-054 1431 UTC
14547 kHz, 03-04, 1346 UTC	18541 kHz, 04-04, 1111 UTC	18541 kHz, 28-04, 1106 UTC	13891 kHz, 29-054 1435 UTC
18237 kHz, 03-04, 1435 UTC	17524 kHz, 04-04, 1115 UTC	17524 kHz, 28-04, 1110 UTC	
17443 kHz, 03-04, 1440 UTC	17443 kHz, 04-04, 1223 UTC	13891 kHz, 28-04, 1120 UTC	
15937 kHz, 03-04, 1446 UTC	15937 kHz, 04-04, 1226 UTC	18541 kHz, 29-054 1029 UTC	

X06

9252 kHz, 18-04, 0651 UTC, MFSK-6	111666 (ended at 0845z)
15950 kHz, 18-04, 1010 UTC, CW	111111

XSL - Japan Maritime Self-Defense Force (海上自衛隊 Kaijō Jieitai)

4153 kHz, 03-04, 0517 UTC
4231.5 kHz, 03-04, 0517 UTC
4291 kHz, 03-04, 0517 UTC
6250 kHz, 03-04, 0517 UTC
6417 kHz, 03-04, 0517 UTC
6445 kHz, 03-04, 0517 UTC
8313 kHz, 03-04, 0517 UTC
8588 kHz, 03-04, 0517 UTC
8703.5 kHz, 03-04, 0517 UTC



DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

14755 kHz, 03-04, 0741 UTC, RFSM-8000
17440 kHz, 03-04, 1224 UTC, RFSM-8000
18455 kHz, 03-04, 1019 UTC, RFSM-8000
18515 kHz, 03-04, 1026 UTC, RFSM-8000
14755 kHz, 10-04, 0831 UTC, RFSM-8000
17440 kHz, 10-04, 1224 UTC, RFSM-8000
18455 kHz, 10-04, 0811 UTC, RFSM-8000
18515 kHz, 10-04, 1021 UTC, RFSM-8000
14755 kHz, 22-03, 0821 UTC, RFSM-8000
17440 kHz, 22-04, 1223 UTC, RFSM-8000
18455 kHz, 22-04, 1257 UTC, RFSM-8000
18515 kHz, 22-04, 1021 UTC, RFSM-8000
14755 kHz, 24-04, 0826 UTC, RFSM-8000
14755 kHz, 28-04, 0831 UTC, RFSM-8000

18455 kHz, 28-04, 1258 UTC, RFSM-8000
 18515 kHz, 28-04, 1030 UTC, RFSM-8000
 14755 kHz, 30-04, 0830 UTC, RFSM-8000
 17440 kHz, 30-04, 0835 UTC, RFSM-8000
 18455 kHz, 30-04, 0721 UTC, RFSM-8000
 18515 kHz, 30-04, 0840 UTC, RFSM-8000

Diplomatic stations: Egypt

19888.7 kHz, 03-04, 1629 UTC, SITOR-A 100/170
 19888.0 kHz, 03-04, 1755 UTC, CODAN
 19888.7 kHz, 03-04, 1802 UTC, SITOR-A 100/170
 19888.0 kHz, 03-04, 1910 UTC, CODAN
 19888.7 kHz, 03-04, 1913 UTC, SITOR-A 100/170
 14622 kHz, 22-04, 0930 UTC, CODAN

71: MFA Cairo message to RCVB: Egyptian embassy Washington
 66601: Egyptian embassy connecting with 99903: MFA Cairo
 71: MFA Cairo message to RCVB: Egyptian embassy Washington
 99903: MFA Cairo connecting to 66601: Egyptian embassy Washington
 71: MFA Cairo message to RCVB: Egyptian embassy Washington
 Egyptian diplo

Diplomatic stations: North Korea

14300 kHz, 01-04, 1454 UTC DPRK-ARQ 600/600 LSB
 16252 kHz, 01-04, 1459 UTC, DPRK-ARQ 600/600 LSB
 16252 kHz, 01-04, 1517 UTC, DPRK-ARQ 600/600 LSB
 16252 kHz, 01-04, 1519 UTC, DPRK-ARQ 600/600 LSB
 11045 kHz, 03-04, 0639 UTC, DPRK-ARQ 600/600 LSB
 14222 kHz, 03-04, 0640 UTC, DPRK-ARQ 600/600 LSB
 12650 kHz, 03-04, 0704 UTC, DPRK-ARQ 600/600 LSB
 14666 kHz, 03-04, 0707 UTC, DPRK-ARQ 600/600 LSB
 11045 kHz, 04-04, 0706 UTC, DPRK-ARQ 600/600 LSB
 16120 kHz, 04-04, 0722 UTC, DPRK-ARQ 600/600 LSB
 14300 kHz, 14-04, 0728 UTC, DPRK-ARQ 600/600 LSB
 15500 kHz, 14-04, 0807 UTC, DPRK-ARQ 600/600 LSB
 16252 kHz, 14-04, 1418 UTC, DPRK-ARQ 600/600 LSB
 12499 kHz, 17-04, 0707 UTC, DPRK-ARQ 1200/600 LSB
 16252 kHz, 18-04, 1308 UTC, DPRK-ARQ 600/600 LSB
 14300 kHz, 22-04, 0700 UTC, DPRK-ARQ 600/600 LSB
 14200 kHz, 23-04, 0730 UTC, DPRK-ARQ 600/600 LSB
 14300 kHz, 23-04, 0730 UTC, DPRK-ARQ 600/600 LSB
 15500 kHz, 23-04, 0804 UTC, DPRK-ARQ 600/600 LSB
 14820 kHz, 24-04, 0634 UTC, DPRK-ARQ 600/600 LSB
 17450 kHz, 24-04, 0908 UTC, DPRK-ARQ 600/600 LSB
 14300 kHz, 29-04, 1208 UTC, DPRK-ARQ 600/600 LSB
 13200 kHz, 30-04, 1457 UTC, DPRK-ARQ 600/600 LSB
 13120 kHz, 30-04, 1458 UTC, DPRK-ARQ 1200/600 LSB
 13100 kHz, 30-04, 0748 UTC, DPRK-ARQ 1200/600 LSB
 13222 kHz, 30-04, 0748 UTC, DPRK-ARQ 600/600 LSB
 13100 kHz, 30-04, 1204 UTC, DPRK-ARQ 1200/600 LSB
 13222 kHz, 30-04, 1205 UTC, DPRK-ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow clg DPRK embassy Stockholm
 DPRK embassy Moscow clg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Warsaw
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow clg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Vienna
 DPRK embassy Moscow wkg DPRK embassy Prague
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Warsaw
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 Unid DPRK embassy wkg DPRK embassy Moscow

Diplomatic stations: Russia

13422 kHz, 01-04, 0820 UTC, MFSK-66
 14615 kHz, 01-04, 0739 UTC, MFSK-6
 16115 kHz, 02-04, 1101 UTC, MFSK-6
 18245 kHz, 03-04, 0907 UTC, MFSK-6
 16315 kHz, 03-04, 1415 UTC, Serdolik v2
 16315 kHz, 03-04, 1417 UTC, Serdolik v2
 18232 kHz, 03-04, 1418 UTC, Serdolik v2
 16315 kHz, 03-04, 1421 UTC, Serdolik v2
 18232 kHz, 03-04, 1422 UTC, Serdolik v2
 16315 kHz, 03-04, 1424 UTC, Serdolik v2
 18232 kHz, 03-04, 1425 UTC, Serdolik v2
 16315 kHz, 03-04, 1428 UTC, Serdolik v2

Russian diplo
 MFA Moscow clg 125643: Russian embassy Ulaanbaatar
 MFA Moscow clg 215346: Russian Consulate General Mumbai
 MFA Moscow clg 231654: Russian embassy Abuja
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal

16132 kHz, 03-04, 1429 UTC, MFSK-6	MFA Moscow clg 352416: Russian embassy Dar es Salaam
16313 kHz, 03-04, 1434 UTC, Serdolik v2	Russian diplo
17468 kHz, 03-04, 1511 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
15883 kHz, 03-04, 1533 UTC, MFSK-66	Russian diplo
14720 kHz, 04-04, 1303 UTC, MFSK-6	MFA Moscow clg 241563: Russian Consulate General Karachi
9122 kHz, 08-04, 0744 UTC, Serdolik v2	Russian intel.
13420 kHz, 08-04, 0753 UTC, Serdolik v2	Russian diplo
13420 kHz, 08-04, 0803 UTC, MFSK-6	MFA Moscow clg 534216: Russian embassy Baghdad
11071 kHz, 08-04, 0809 UTC, Serdolik v2	Russian intel.
14970 kHz, 08-04, 1018 UTC, Serdolik v2	Russian intel.
20815 kHz, 08-04, 1022 UTC, Serdolik v2	Russian intel.
16062 kHz, 10-04, 0805 UTC, Serdolik v2	Russian diplo
16153 kHz, 10-04, 0820 UTC, MFSK-6	MFA Moscow clg 153624: Russian embassy Damascus
18220 kHz, 10-04, 0827 UTC, Serdolik v2	Russian diplo
11158 kHz, 11-04, 0635 UTC, Serdolik v2	Russian diplo
14635 kHz, 11-04, 0641 UTC, MFSK-6	MFA Moscow c;g 341265: unid Russian embassy
11155 kHz, 11-04, 0649 UTC, MFSK-6	MFA Moscow c;g 341265: unid Russian embassy
11158 kHz, 11-04, 0654 UTC, Serdolik v2	Russian diplo
14615 kHz, 15-04, 0802 UTC, MFSK-6	MFA Moscow clg 125643: Russian embassy Ulaanbataar
18523 kHz, 15-04, 0900 UTC, MFSK-6	MFA Moscow clg 325614: Russian embassy Nairobi
16302 kHz, 18-04, 1042 UTC, Serdolik v2	Russian diplo
14824 kHz, 18-04, 1047 UTC, MFSK-6	MFA Moscow clg 625413: Russian embassy Tel Aviv
14720 kHz, 18-04, 1308 UTC, MFSK-6	MFA Moscow clg 241563: Russian Consulate General Karachi
12120 kHz, 21-04, 0639 UTC, MFSK-66	Russian diplo
14878 kHz, 21-04, 0759 UTC, MFSK-66	Russian diplo
17523 kHz, 22-04, 0814 UTC, MFSK-6	MFA Moscow clg 542136: Russian embassy Beijing
15690 kHz, 22-04, 0825 UTC, Serdolik v2	Russian diplo
19305 kHz, 23-04, 1305 UTC, OFDM-112	Russian diplo
13848 kHz, 24-04, 0639 UTC, MFSK-66	Russian diplo
13407 kHz, 24-04, 0855 UTC, MFSK-6	MFA Moscow clg 153624: Russian embassy Damascus
20605 kHz, 25-04, 1011 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan
15810 kHz, 27-04, 1030 UTC, MFSK-6	MFA Moscow clg 145632: Russian embassy Algiers
19235 kHz, 28-04, 0926 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
19273 kHz, 28-04, 0918 UTC, Serdolik v2	Russian diplo
19273 kHz, 28-04, 0935 UTC, Serdolik v2	Russian diplo
11071 kHz, 28-04, 0900 UTC, Serdolik v2	Russian diplo
11072 kHz, 29-04, 0812 UTC, Serdolik v2	Russian diplo

Diplomatic stations: Tunisia

10176 kHz, 24-04, 0941 UTC, MIL-STD 188-141 STAT1: MFA Tunis sounding

UTILITY ROUND-UP

Unid MFSK-11

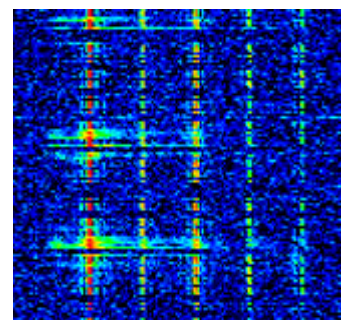
14923 kHz, 16-04, 1146 UTC kHz MFSK-11

Unid Cyrillic morse station

This unid station sent endless Cyrillic 5-letter groups in USB CW. TdoA suggests Moscow as place of origin.

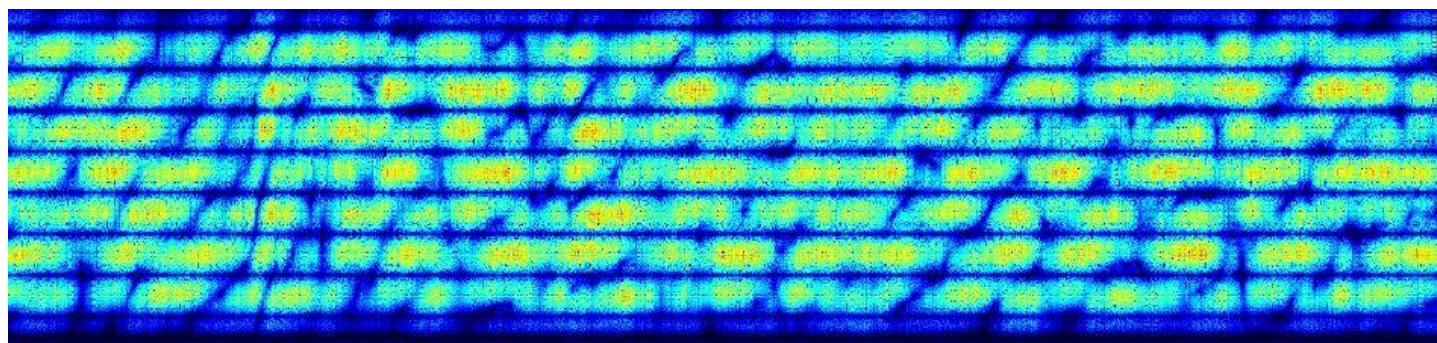
The station was also heard on **March 29th, 18320 kHz.**

8250 kHz, 21-04, 1630-1856 UTC
 8250 kHz, 22-04, 0458-0525 UTC
 11250 kHz, 22-04, 0527-0556 UTC
 17250 kHz, 22-04, 0600-0817 UTC
 11420 kHz, 29-04, 1135-1316 UTC



MFSK-7

18541 kHz, 04-04, 1116 UTC, MFSK-7
15621 kHz, 04-04, 1135 UTC, MFSK-7



Unid station a.k.a. New Buzzer

6085 kHz, 04-04, 1830 UTC
7230 kHz, 04-04, 1830 UTC
7550 kHz, 04-04, 1830 UTC

5107 kHz, 11-04, 2123 UTC
8160 kHz, 11-04, 2123 UTC
9695 kHz, 11-04, 2123 UTC

5107 kHz, 22-04, 1713 UTC
8160 kHz, 22-04, 1713 UTC
9695 kHz, 22-04, 1713 UTC

6085 kHz, 07-04, 1650 UTC
7230 kHz, 07-04, 1650 UTC
7550 kHz, 07-04, 1650 UTC

5107 kHz, 18-04, 1921 UTC
8160 kHz, 18-04, 1921 UTC
9695 kHz, 18-04, 1921 UTC

5107 kHz, 23-04, 2027 UTC
8160 kHz, 23-04, 2027 UTC
9695 kHz, 23-04, 2027 UTC

6085 kHz, 08-04, 1644 UTC
7230 kHz, 08-04, 1644 UTC
7550 kHz, 08-04, 1644 UTC

5107 kHz, 19-04, 1958 UTC
8160 kHz, 19-04, 1958 UTC
9695 kHz, 19-04, 1958 UTC

5107 kHz, 28-04, 2028 UTC
8160 kHz, 28-04, 2028 UTC
9695 kHz, 28-04, 2028 UTC

5107 kHz, 09-04, 1722 UTC
8160 kHz, 09-04, 1722 UTC
9695 kHz, 09-04, 1722 UTC

5107 kHz, 20-04, 1956 UTC
8160 kHz, 20-04, 1956 UTC
9695 kHz, 20-04, 1956 UTC

North Korean military

Logged by JPL

4464 kHz, 05-04, 1741 kHz

VVV BUT3U DE 63VON = 98000 21625 22243 61990 00079 ... VA VA 00

4464 kHz, 06-04, 1741 UTC

VVV 6AU3F DE 63GMX BT 03742 75220 68605 ... 00007 SK SK 00

4419 kHz, 07-04, 1655 UTC

4IXXK DE 4XNUJ 3038 3038 SK SK 00
4IXXK

RUSSIAN MILITARY TRANSCRIPTS

Morse transmissions

13852 kHz, 09-04, 0615 UTC, i.p.

6DIC 6DIC R 030 K
ZIOE ZIOE ZIOE DE 6DIC 6DIC R 030 K
A8N8 A8N8 A8N8 DE 6DIC 6DIC R 030 K
CK6Z CK6Z CK6Z DE 6DIC 6DIC R 030 K
NVCS NVCS NVCS DE 6DIC 6DIC R 030 K

14410 kHz, 18-04, FSK CW

1336 UTC UUUUU RDL RDL RDL 15910 78975 15910 78975 15910 78975 K
1357 UTC UUUUU RDL RDL RDL 93597 90953 93597 90953 93597 90953 K
1415 UTC UUUUU RDL RDL RDL 45081 54781 45081 54781 45081 54781 K
UUUUU RDL RDL RDL 29784 09981
UUUUU RDL RDL RDL 29784 09981 29784 09981 29784 09981 K
UUUUU RDL RDL RDL 18378 97067 18378 97067 18378 97067 K
1423 UTC UUUUU RDL RDL RDL 01510 75474 01510 75474 01510 75474 K
1448 UTC UUUUU RDL RDL RDL 15991 35274 15991 35274 15991 35274 K
1455 UTC UUUUU RDL RDL RDL 30652 53180 30652 53180 30652 53180 K
1508 UTC UUUUU RDL RDL RDL 61170 84153 61170 84153 61170 84153 K

14410 kHz, 23-04, 1340 UTC, FSK CW

UUUUU RDL RDL RDL 61685 04995 61685 04995 61685 04995 K

14410 kHz, 24-04, FSK CW

1128 UTC UUUUU RDL RDL RDL 24760 56645 24760 56645 24760 56645 K
1150 UTC UUUUU XXX XXX XHOP XHOP 88158 64578 PREODOWITYJ 0443 5327 K
1215 UTC UUUUU RDL RDL RDL 01304 49922 01304 49922 01304 49922 K
1358 UTC UUUUU XXX XXX XHOP XHOP 50184 73205 AGATOPONG 8092 2727 K
1428 UTC UUUUU RDL RDL RDL 11652 93895 11652 93895 11652 93895 K

14410 kHz, 25-04, FSK CW

1348 UTC UUUUU RDL RDL RDL 26419 89775 26419 89775 26419 89775 K
1350 UTC UUUUU RDL RDL RDL 26419 89775 26419 89775 26419 89775 K
1355 UTC UUUUU RDL RDL RDL 95908 94780 95908 94780 95908 94780 K
1358 UTC UUUUU RDL RDL RDL 33266 25346 33266 25346 33266 25346 K

10389 kHz, 30-04, 1200 UTC

VVV RCRE RCRE RCRE DE RAA ZZD ? K
VVV RCRE RCRE RCRE DE RAA ZZD ? K
RRA RRA RRA DE RCL RCL ZZD4 K
RRA DE RAA ZZD4 ZNE TRI DE WYat XSE MX ZNE ? K
RAA DE RCL ZSL ZNE TRI DE WYat XSE MX ZNE DWA MDIN PYaX K
RIW AS 3 K
RCL OK AS 3 K
RCRE DE RAA K
RAA DE RCRE K
RCRE DE RAA ZKM? K
RCRE ZKM ZGR K
RAA ZZS etc.



FSK CW

LOGS SECTION

Code	Date	UTC	freq	Day	Details	Mode	Contributor
---	21-4	1630	8250	Mon	Endless Cyrillic 5-letter groups. Ended at 1856z	USB CW	(AB)
---	22-4	0458	8250	Tue	Endless Cyrillic 5-letter groups. Ended at 0525z	USB CW	(AB)
---	22-4	0527	11250	Tue	Endless Cyrillic 5-letter groups. Ended at 0556z	USB CW	(AB)
---	22-4	0600	17250	Tue	Endless Cyrillic 5-letter groups. Ended at 0817z	USB CW	(AB)
BUL	3-4	0741	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	3-4	1019	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	3-4	1026	18515	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	3-4	1224	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-4	0811	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-4	0831	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-4	1021	18515	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-4	1224	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	22-4	0821	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	22-4	1021	18515	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	22-4	1223	17440	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	22-4	1257	18455	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	24-4	0826	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-4	0831	14755	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-4	1030	18515	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	28-4	1258	18455	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-4	0721	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-4	0830	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-4	0835	17440	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	30-4	0840	18515	Wed	Bulgarian diplo	RFSM-8000	(AB)
E06	4-4	1315	10423	Fri	058 123 40 20880 31825 61293 ... 63160 13928 53763 123 40 00000	J3E	(AB/PY)
E06	5-4	1600	11487	Sat	480 179 46 05875 61595 13576 ... 04365 08937 01283 179 46 00000	USB	(AB/HFD)
E06	5-4	1630	9412	Sat	480 179 46 05875 61595 13576 ... 04365 08937 01283 179 46 00000	USB	(AB/HFD)
E06	6-4	0730	13945	Sun	480 179 46 05875 61595 13576 ... 04365 08937 01283 179 46 00000	USB	(AB/HFD/Lac)
E06	6-4	0800	11128	Sun	480 179 46 05875 61595 13576 ... 04365 08937 01283 179 46 00000	USB	(AB/HFD)
E06	16-4	0840	10755	Wed	i.p. 975 (R) repeated for at least 10 minutes before sending a message, signal fading out	USB	(PY)
E06	19-4	1600	11487	Sat	480 175 43 18085 54865 90479 ... 73642 75820 48512 175 43 00000	USB	(AB/Lac)
E06	19-4	1630	9412	Sat	480 175 43 18085 54865 90479 ... 73642 75820 48512 175 43 00000	USB	(AB/Lac)
E06	20-4	0730	13945	Sun	480 175 43 18085 54865 90479 ... 73642 75820 48512 175 43 00000	USB	(AB/Lac)
E06	20-4	0800	11128	Sun	480 175 43 18085 54865 90479 ... 73642 75820 48512 175 43 00000	USB	(AB/Lac)
E07	1-4	1500	16257	Tue	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB/HFD/Lac)
E07	1-4	1520	18257	Tue	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB/HFD/Lac)
E07	1-4	1520	18257	Tue	221:1	USB	(HFD)
E07	1-4	1540	19157	Tue	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB/HFD/Lac)

E07	3-4	1410	16331	Thu	893 893 893 000	USB	(AB/HFD)
E07	3-4	1430	15831	Thu	893 893 893 000	USB	(AB/HFD)
E07	4-4	1500	16257	Fri	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB)
E07	4-4	1520	18257	Fri	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB)
E07	4-4	1540	19157	Fri	221 221 221 1 164 85 164 85 17961 00049 68036 ... 26667 55315 53075 000 000	USB	(AB)
E07	5-4	1410	16331	Sat	893 893 893 000	USB	(AB)
E07	5-4	1430	15831	Sat	893 893 893 000	USB	(AB)
E07	8-4	1500	16257	Tue	221 221 221 000	USB	(AB/Lac)
E07	8-4	1520	18257	Tue	221 221 221 000	USB	(AB)
E07	10-4	1200	11561	Thu	421 421 421 1 8889 45 8889 45 31971 48037 65357 ... 40768 67766 67416 000 000	USB	(AB/Lac)
E07	10-4	1220	12177	Thu	421 1 8889 45 31971 48037 65357 ... 40768 67766 67416 000 000	USB	(Lac)
E07	10-4	1220	12177	Thu	421 421 421 1 8889 45 8889 45 31971 48037 65357 ... 40768 67766 67416 000 000	USB	(PY/AB)
E07	10-4	1240	13472	Thu	421 421 421 1 8889 45 8889 45 31971 48037 65357 ... 40768 67766 67416 000 000	USB	(PY)
E07	10-4	1300	10659	Thu	614 614 614 1 1557 94 1557 94 83889 62358 74679 ... 13389 07583 47226 000 000 Fe- male voice	USB	(AB/Lac)
E07	10-4	1320	11415	Thu	614 614 614 1 1557 94 1557 94 83889 62358 74679 ... 13389 07583 47226 000 000 Fe- male voice	USB	(AB/Lac)
E07	10-4	1340	12147	Thu	614 614 614 1 1557 94 1557 94 83889 62358 74679 ... 13389 07583 47226 000 000 Fe- male voice	USB	(AB/Lac)
E07	10-4	1410	16331	Thu	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000 Restart after group 118	USB	(AB/Lac)
E07	10-4	1430	15831	Thu	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000	USB	(AB/Lac)
E07	10-4	1450	14831	Thu	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000	USB	(AB/Lac)
E07	11-4	1500	16257	Fri	221 221 221 000	USB	(AB)
E07	11-4	1520	18257	Fri	221 221 221 000	USB	(AB)
E07	12-4	1410	16331	Sat	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000	USB	(AB)
E07	12-4	1430	15831	Sat	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000	USB	(AB)
E07	12-4	1450	14831	Sat	893 893 893 1 2199 166 2199 166 92991 34206 33502 ... 34098 96440 91647 000 000	USB	(AB)
E07	15-4	1500	16257	Tue	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB/Lac)
E07	15-4	1520	18257	Tue	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB-RUS/Lac)
E07	15-4	1540	19157	Tue	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB-RUS/Lac)
E07	17-4	1000	18273	Thu	248 248 248 000	USB	(FD)
E07	17-4	1020	17459	Thu	248 248 248 000	USB	(FD)
E07	17-4	1040	15891	Thu	248 248 248 000	USB	(FD)
E07	18-4	1500	16257	Fri	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB)
E07	18-4	1520	18257	Fri	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB-RUS)
E07	18-4	1540	19157	Fri	221 221 221 1 5132 176 5132 176 12444 69610 73291 ... 71364 52028 00917 000 000	USB	(AB-RUS)
E07	19-4	1000	18273	Sat	248 248 248 000	USB	(FD)
E07	19-4	1020	17459	Sat	248 248 248 000	USB	(FD)
E07	19-4	1040	15891	Sat	248 248 248 000	USB	(FD)
E07	22-4	1500	16257	Tue	221 221 221 000	USB	(AB)
E07	22-4	1520	18257	Tue	221 221 221 000	USB	(AB)

E07	24-4	1000	18273	Thu	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(FD)
E07	24-4	1020	17459	Thu	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(FD)
E07	24-4	1040	15891	Thu	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(AB)
E07	25-4	1500	16257	Fri	221 221 221 000	USB	(AB)
E07	25-4	1520	18257	Fri	221 221 221 000	USB	(AB)
E07	26-4	1000	18273	Sat	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(AB/HFD/Lac)
E07	26-4	1020	17459	Sat	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(AB/HFD/Lac)
E07	26-4	1040	15891	Sat	248 248 248 1 9189 84 9189 84 27471 80248 37355 ... 06514 73359 54556 000 000	USB	(AB/HFD/Lac)
E07	29-4	1500	16257	Tue	221 221 221 1 496 155 496 155 52457 76242 24729 ... 31479 20719 41456 000 000	USB	(AB/Lac)
E07	29-4	1520	18257	Tue	221 221 221 1 496 155 496 155 52457 76242 24729 ... 31479 20719 41456 000 000	USB	(AB/Lac)
E07	29-4	1540	19157	Tue	221 221 221 1 496 155 496 155 52457 76242 24729 ... 31479 20719 41456 000 000	USB	(AB/Lac)
E11	1-4	0645	13470	Tue	517/00 Out	USB	(AB/Lac)
E11	1-4	0715	14666	Tue	630/00 Out	USB	(Lac)
E11	1-4	0745	14865	Tue	228/00 Out	USB	(AB/Lac)
E11	1-4	0820	18184	Tue	135/00 Out	USB	(AB/Lac)
E11	1-4	0820	12202	Tue	138/00 Out	USB	(Lac)
E11	1-4	0820	19184	Tue	135/00 Out	USB	(Lac)
E11	1-4	0845	18168	Tue	156/00 Out	USB	(AB/Lac)
E11	1-4	1205	9399	Tue	464/00 Out	USB	(AB/Lac)
E11	1-4	1230	12530	Tue	335/00 Out	USB	(AB/Lac)
E11	1-4	1430	14972	Tue	914/00 Out	USB	(AB/Lac)
E11	2-4	0600	25839	Wed	941/00 Out	USB	(AB-POL/Lac)
E11	2-4	0645	10800	Wed	416/00 Out	USB	(AB)
E11	2-4	0715	19515	Wed	752/00 Out	USB	(AB-POL)
E11	2-4	0745	17410	Wed	340/00 Out	USB	(AB-POL)
E11	2-4	0820	19184	Wed	138/00 Out	USB	(AB)
E11	2-4	0845	12202	Wed	719/00 Out	USB	(AB-POL)
E11	2-4	0845	12202	Wed	719/00 Out	USB	(Lac)
E11	2-4	0900	13117	Wed	535/00 Out	USB	(AB-POL/Lac)
E11	2-4	0930	6940	Wed	277/00 Out	USB	(AB/Lac)
E11	2-4	1045	12385	Wed	692/00 Out	USB	(AB/Lac)
E11	2-4	1205	9399	Wed	462/00 Out	USB	(AB)
E11	2-4	1610	4181	Wed	399/00 Out	USB	(AB)
E11	3-4	0645	13470	Thu	519/00 Out	USB	(AB)
E11	3-4	0720	9446	Thu	432/00 Out	USB	(AB/Lac)
E11	3-4	0745	14865	Thu	227/00 Out	USB	(AB)
E11	3-4	0845	18168	Thu	155/00 Out	USB	(AB)
E11	3-4	0930	6940	Thu	271/00 Out	USB	(AB)
E11	3-4	1230	12530	Thu	334/00 Out	USB	(AB)
E11	3-4	1300	5371	Thu	312/00 Out	USB	(AB-POL)
E11	3-4	1530	10330	Thu	267/00 Out	USB	(AB)
E11	3-4	1900	7317	Thu	649/00 Out	USB	(AB)

E11	4-4	0600	8680	Fri	350/00 Out	USB	(AB)
E11	4-4	0720	9446	Fri	431/00 Out	USB	(AB)
E11	4-4	0745	17410	Fri	344/00 Out	USB	(AB)
E11	4-4	0830	20170	Fri	183/00 Out	USB	(AB-POL)
E11	4-4	1000	9951	Fri	300/00 Out	USB	(AB)
E11	5-4	0700	9079	Sat	496/00 Out	USB	(AB)
E11	5-4	1430	14972	Sat	911/00 Out	USB	(AB)
E11	5-4	1610	4181	Sat	391/00 Out	USB	(AB)
E11	5-4	1645	4505	Sat	368/00 Out	USB	(AB/Lac)
E11	6-4	0600	8680	Sun	353/00 Out	USB	(AB)
E11	6-4	0700	9079	Sun	497/00 Out	USB	(AB)
E11	6-4	1645	4505	Sun	365/00 Out	USB	(AB)
E11	6-4	1745	13470	Sun	245/00 Out	USB	(AB)
E11	7-4	0600	25839	Mon	948/00 Out	USB	(AB-POL)
E11	7-4	0715	19515	Mon	750/00 Out	USB	(AB-FIN/Lac)
E11	7-4	0745	10213	Mon	266/00 Out	USB	(AB/Lac)
E11	7-4	0845	12202	Mon	716/00 Out	USB	(AB)
E11	7-4	0900	13117	Mon	537/00 Out	USB	(AB/Lac)
E11	7-4	1045	12385	Mon	698/00 Out	USB	(AB/Lac)
E11	7-4	1300	5371	Mon	312/00 Out	USB	(AB/Lac)
E11	7-4	1745	13470	Mon	249/00 Out	USB	(AB-POL/Lac)
E11	7-4	1900	7317	Mon	643/00 Out	USB	(AB/Lac)
E11	8-4	0645	13470	Tue	517/00 Out	USB	(AB/Lac)
E11	8-4	0700	8180	Tue	573/00 Out	USB	(AB/Lac)
E11	8-4	0715	14666	Tue	635/00 Out	USB	(AB/Lac)
E11	8-4	0820	19184	Tue	132/00 Out	USB	(AB/Lac)
E11	8-4	0845	18168	Tue	159/00 Out	USB	(AB/Lac)
E11	8-4	1000	9951	Tue	300/00 Out	USB	(AB)
E11	8-4	1205	9399	Tue	460/00 Out	USB	(AB/Lac)
E11	8-4	1230	12530	Tue	331/00 Out	USB	(AB/Lac)
E11	8-4	1430	14972	Tue	917/00 Out	USB	(AB/Lac)
E11	8-4	1605	5176	Tue	235/00 Out	USB	(AB)
E11	9-4	0600	25839	Wed	945/00 Out	USB	(AB-POL/Lac)
E11	9-4	0715	19515	Wed	757/00 Out	USB	(AB-POL/Lac)
E11	9-4	0820	19184	Wed	135/00 out	USB	(Lac)
E11	9-4	0845	12202	Wed	719/00 Out	USB	(AB-POL/Lac)
E11	9-4	0900	13117	Wed	537/00 Out	USB	(AB-POL)
E11	9-4	0930	6940	Wed	279/00 Out	USB	(AB)
E11	9-4	1045	12385	Wed	698/00 Out	USB	(AB)
E11	9-4	1205	9399	Wed	469/00 Out	USB	(AB)
E11	9-4	1715	6923	Wed	978/00 Out	USB	(AB)
E11	10-4	0645	13470	Thu	515/00 Out	USB	(AB/Lac)

E11	10-4	0845	18168	Thu	159/00 Out	USB	(AB)
E11	10-4	0930	6940	Thu	275/00 Out	USB	(AB)
E11	10-4	1230	12530	Thu	333/00 Out	USB	(AB/Lac)
E11	10-4	1300	5371	Thu	312/00 Out	USB	(AB-POL)
E11	10-4	1530	10330	Thu	261/00 Out	USB	(AB/Lac)
E11	10-4	1900	7317	Thu	646/00 Out	USB	(AB/Lac)
E11	10-4	2000	5737	Thu	520/00 Out	USB	(AB/Lac)
E11	11-4	0600	8680	Fri	358/00 Out	USB	(AB)
E11	11-4	0700	8180	Fri	577/00 Out	USB	(AB/Lac)
E11	11-4	0715	14666	Fri	630/00 Out	USB	(AB/Lac)
E11	11-4	1000	9951	Fri	308/00 Out	USB	(AB/Lac)
E11	11-4	1715	6923	Fri	976/00 Out	USB	(AB)
E11	11-4	1815	11116	Fri	925/00 Out	USB	(AB-POL)
E11	11-4	1910	8530	Fri	611/00 Out	USB	(AB/Lac)
E11	12-4	0700	9079	Sat	497/00 Out	USB	(AB)
E11	12-4	1430	14972	Sat	912/00 Out	USB	(AB)
E11	12-4	1645	4505	Sat	367/00 Out	USB	(AB/Lac)
E11	13-4	0600	8680	Sun	355/00 Out	USB	(AB)
E11	13-4	0700	9079	Sun	495/00 Out	USB	(AB)
E11	13-4	1605	5176	Sun	230/00 Out	USB	(AB/Lac)
E11	13-4	1645	4505	Sun	363/00 Out	USB	(AB/Lac)
E11	13-4	1745	13470	Sun	249/00 Out	USB	(AB/Lac)
E11	13-4	1815	11116	Sun	926/00 Out	USB	(AB/Lac)
E11	13-4	1910	8530	Sun	613/00 Out	USB	(AB/Lac)
E11	13-4	2000	5737	Sun	527/00 Out	USB	(AB/Lac)
E11	14-4	0600	25839	Mon	949/00 Out	USB	(AB/Lac)
E11	14-4	0645	10800	Mon	411/00 Out	USB	(AB-FIN)
E11	14-4	0645	10800	Mon	411/00 out	USB	(Lac)
E11	14-4	0715	19515	Mon	750/00 Out	USB	(AB/Lac)
E11	14-4	0830	20170	Mon	182/00 Out	USB	(AB/Lac)
E11	14-4	0845	12202	Mon	714/00 Out	USB	(AB/Lac)
E11	14-4	0900	13117	Mon	532/00 Out	USB	(AB/Lac)
E11	14-4	1045	12385	Mon	693/00 Out	USB	(AB)
E11	14-4	1900	7317	Mon	640/00 Out	USB	(AB/Lac)
E11	15-4	0645	13470	Tue	517/00 Out	USB	(AB)
E11	15-4	0700	8180	Tue	579/00 Out	USB	(AB)
E11	15-4	0745	14865	Tue	223/00 Out	USB	(AB)
E11	15-4	0820	19184	Tue	136/00 Out	USB	(AB-POL/Lac)
E11	15-4	1000	9951	Tue	300/00 Out	USB	(AB/Lac)
E11	15-4	1205	9399	Tue	466/00 Out	USB	(AB/Lac)
E11	15-4	1605	5176	Tue	237/00 Out	USB	(AB)
E11	16-4	0600	25839	Wed	946/00 Out	USB	(AB-POL/Lac)

E11	16-4	0645	10800	Wed	418/00 Out	USB	(AB)
E11	16-4	0645	13470	Wed	511/00 Out	USB	(Lac)
E11	16-4	0715	19515	Wed	759/00 Out	USB	(AB-POL)
E11	16-4	0720	9446	Wed	430/00 Out	USB	(Lac)
E11	16-4	0745	14865	Wed	225/00 Out	USB	(Lac)
E11	16-4	0820	19184	Wed	134/00 Out	USB	(AB-POL/Lac)
E11	16-4	0845	12202	Wed	718/00 Out	USB	(AB/Lac)
E11	16-4	0900	13117	Wed	534/00 Out	USB	(AB-POL/Lac)
E11	16-4	1045	12385	Wed	693/00 Out	USB	(AB)
E11	16-4	1205	9399	Wed	461/00 Out	USB	(AB/Lac)
E11	16-4	1610	4181	Wed	399/00 Out	USB	(AB/Lac)
E11	16-4	1715	6923	Wed	975/00 Out	USB	(AB)
E11	17-4	0645	13470	Thu	511/00 Out	USB	(AB/Lac)
E11	17-4	0720	9446	Thu	430/00 Out	USB	(AB/Lac)
E11	17-4	0745	14865	Thu	225/00 Out	USB	(AB/Lac)
E11	17-4	1900	7317	Thu	646/00 Out	USB	(AB)
E11	17-4	2000	5737	Thu	528/00 Out	USB	(AB)
E11	18-4	0700	8180	Fri	571/00 Out	USB	(AB/Lac)
E11	18-4	0720	9446	Fri	430/00 Out	USB	(AB)
E11	18-4	0745	17410	Fri	344/00 Out	USB	(AB-POL)
E11	18-4	0830	20170	Fri	184/00 Out	USB	(AB-POL)
E11	18-4	1000	9951	Fri	309/00 Out	USB	(AB)
E11	18-4	1715	6923	Fri	976/00 Out	USB	(AB)
E11	18-4	1815	11116	Fri	920/00 Out	USB	(AB)
E11	18-4	1910	8530	Fri	613/00 Out	USB	(AB)
E11	18-4	1910	8530	Fri	613/00 Out	USB	(AB)
E11	19-4	1610	4181	Sat	395/00 Out	USB	(AB)
E11	19-4	1645	4505	Sat	367/00 Out	USB	(AB)
E11	20-4	1605	5176	Sun	238/00 Out	USB	(AB)
E11	20-4	1645	4505	Sun	365/00 Out	USB	(AB)
E11	20-4	1815	11116	Sun	929/00 Out	USB	(AB)
E11	20-4	1910	8530	Sun	618/00 Out	USB	(AB)
E11	20-4	2000	5737	Sun	522/00 Out	USB	(AB)
E11	21-4	0600	25839	Mon	945/00 Out	USB	(AB-POL)
E11	21-4	0645	10800	Mon	416/00 Out	USB	(AB/Lac)
E11	21-4	0715	19515	Mon	753/00 Out	USB	(AB/Lac)
E11	21-4	0745	10213	Mon	267/00 Out	USB	(AB/Lac)
E11	21-4	0830	20170	Mon	183/00 Out	USB	(AB-POL)
E11	21-4	0900	13117	Mon	534/00 Out	USB	(AB)
E11	21-4	1045	12385	Mon	696/00 Out	USB	(AB/Lac)
E11	21-4	1300	5371	Mon	314/00 Out	USB	(AB/Lac)
E11	21-4	1745	13470	Mon	249/00 Out	USB	(AB-POL)

E11	22-4	0700	8180	Tue	576/00 Out	USB	(AB)
E11	22-4	0715	14666	Tue	639/00 Out	USB	(AB)
E11	22-4	0745	14865	Tue	228/00 Out	USB	(AB)
E11	22-4	0820	19184	Tue	138/00 Out	USB	(AB-POL)
E11	22-4	0845	18168	Tue	152/00 Out	USB	(AB)
E11	22-4	1230	12530	Tue	331/00 Out	USB	(AB)
E11	22-4	1430	14972	Tue	918/00 Out	USB	(AB-POL)
E11	22-4	1605	5176	Tue	231/00 Out	USB	(AB)
E11	23-4	0315	12630	Wed	251/00 Out	USB	(TM)
E11	23-4	0600	25839	Wed	941/00 Out	USB	(AB-POL/Lac)
E11	23-4	0645	10800	Wed	412/00 Out	USB	(AB)
E11	23-4	0715	19515	Wed	750/00 Out	USB	(AB-POL)
E11	23-4	0745	17410	Wed	343/00 Out	USB	(AB-POL)
E11	23-4	0820	19184	Wed	133/00 Out	USB	(AB-POL)
E11	23-4	0845	12202	Wed	718/00 Out	USB	(AB)
E11	23-4	0900	13117	Wed	535/00 Out	USB	(AB)
E11	23-4	0930	6940	Wed	275/00 Out	USB	(AB)
E11	23-4	1045	12385	Wed	698/00 Out	USB	(AB)
E11	23-4	1610	4181	Wed	390/00 Out	USB	(AB)
E11	23-4	1715	6923	Wed	975/00 Out	USB	(AB)
E11	24-4	0720	9446	Thu	434/00 Out	USB	(AB)
E11	24-4	0745	14865	Thu	225/00 Out	USB	(AB)
E11	24-4	0845	18168	Thu	154/00 Out	USB	(AB)
E11	24-4	0930	6940	Thu	277/00 Out	USB	(AB)
E11	24-4	1230	12530	Thu	333/00 Out	USB	(AB)
E11	24-4	1300	5371	Thu	313/00 Out	USB	(AB-POL)
E11	24-4	1530	10330	Thu	260/00 Out	USB	(AB)
E11	24-4	2000	5737	Thu	524/00 Out	USB	(AB)
E11	25-4	0600	8680	Fri	353/00 Out	USB	(AB)
E11	25-4	0715	14666	Fri	639/00 Out	USB	(AB)
E11	25-4	0720	9446	Fri	436/00 Out	USB	(AB)
E11	25-4	0745	17410	Fri	342/00 Out	USB	(AB-POL)
E11	25-4	0830	20170	Fri	185/00 Out	USB	(AB-POL)
E11	25-4	1715	6923	Fri	977/00 Out	USB	(AB)
E11	25-4	1815	11116	Fri	922/00 Out	USB	(AB)
E11	25-4	1910	8530	Fri	611/00 Out	USB	(AB)
E11	26-4	0700	9079	Sat	492/00 Out	USB	(AB)
E11	26-4	1430	14972	Sat	917/00 Out	USB	(AB-POL)
E11	26-4	1610	4181	Sat	399/00 Out	USB	(AB/Lac)
E11	27-4	0600	8680	Sun	353/00 Out	USB	(AB)
E11	27-4	0700	9079	Sun	490/00 Out	USB	(AB)
E11	27-4	0700	9079	Sun	492/00 Out	USB	(Lac)

E11	27-4	1605	5176	Sun	231/00 Out	USB	(AB)
E11	27-4	1745	13470	Sun	247/00 Out	USB	(AB)
E11	27-4	1815	11116	Sun	927/00 Out	USB	(AB)
E11	27-4	1910	8530	Sun	612/00 Out	USB	(AB)
E11	27-4	2000	5737	Sun	525/00 Out	USB	(AB)
E11	28-4	0645	10800	Mon	414/00 Out	USB	(AB)
E11	28-4	0745	10213	Mon	269/00 Out	USB	(AB/Lac)
E11	28-4	0830	20170	Mon	181/00 Out	USB	(AB-POL)
E11	28-4	0845	12202	Mon	716/00 Out	USB	(AB)
E11	28-4	1300	5371	Mon	310/00 Out	USB	(AB)
E11	28-4	1745	13470	Mon	240/00 Out	USB	(AB-POL)
E11	28-4	1900	7317	Mon	647/00 Out	USB	(AB)
E11	29-4	0645	13470	Tue	511/00 Out	USB	(AB)
E11	29-4	0700	8180	Tue	570/00 Out	USB	(AB)
E11	29-4	0715	14666	Tue	639/00 Out	USB	(AB)
E11	29-4	0745	14865	Tue	220/00 Out	USB	(AB)
E11	29-4	0845	18168	Tue	154/00 Out	USB	(AB/Lac)
E11	29-4	1000	9951	Tue	308/00 Out	USB	(AB/Lac)
E11	29-4	1205	9399	Tue	464/00 Out	USB	(AB/Lac)
E11	29-4	1230	12530	Tue	337/00 Out	USB	(AB)
E11	29-4	1430	14972	Tue	918/00 Out	USB	(AB/Lac)
E11	29-4	1605	5176	Tue	236/00 Out	USB	(AB/Lac)
E11	30-4	0645	10800	Wed	415/00 Out	USB	(AB/Lac)
E11	30-4	0745	17410	Wed	344/00 Out	USB	(AB/Lac)
E11	30-4	0845	12202	Wed	711/00 Out	USB	(AB/Lac)
E11	30-4	0930	6940	Wed	276/00 Out	USB	(AB)
E11	30-4	1205	9399	Wed	465/00 Out	USB	(AB)
E11	30-4	1610	4181	Wed	390/00 Out	USB	(AB/Lac)
E11	30-4	1715	6923	Wed	977/00 Out	USB	(AB)
E11a	1-4	0700	8180	Tue	575/33 Attention 54504 48598 14911 ... 70783 04099 79028 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	1-4	1605	5176	Tue	237/33 Attention 28447 71445 31258 ... 00015 29718 89171 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	2-4	1715	6923	Wed	970/34 Attention 38979 01563 96168 ... 24098 28674 51906 Attention (msg rptd) Out	USB	(AB)
E11a	3-4	2000	5737	Thu	525/33 Attention 69227 69292 44708 ... 69275 63646 28916 Attention (msg rptd) Out	USB	(AB)
E11a	4-4	0700	8180	Fri	575/33 Attention 54504 48598 14911 ... 70783 04099 79028 Attention (msg rptd) Out	USB	(AB)
E11a	4-4	1715	6923	Fri	970/34 Attention 38979 01563 96168 ... 24098 28674 51906 Attention (msg rptd) Out	USB	(AB)
E11a	4-4	1815	11116	Fri	920/39 Attention 68480 62966 58002 ... 44879 96108 41549 Attention (msg rptd) Out	USB	(AB-POL)
E11a	4-4	1910	8530	Fri	617/36 Attention 15938 65126 10836 ... 24392 30208 59265 Attention (msg rptd) Out	USB	(AB)
E11a	6-4	1605	5176	Sun	237/33 Attention 28447 71445 31258 ... 00015 29718 89171 Attention (msg rptd) Out	USB	(AB)
E11a	6-4	1815	11116	Sun	920/39 Attention 68480 62966 58002 ... 44879 96108 41549 Attention (msg rptd) Out	USB	(AB)
E11a	6-4	1910	8530	Sun	617/36 Attention 15938 65126 10836 ... 24392 30208 59265 Attention (msg rptd) Out	USB	(AB)
E11a	6-4	2000	5737	Sun	525/33 Attention 69227 69292 44708 ... 69275 63646 28916 Attention (msg rptd) Out	USB	(AB)
E11a	7-4	0645	10800	Mon	410/32 Attention 80477 24324 29787 ... 44220 96054 62257 Attention (msg rptd) Out	USB	(AB/Lac)

E11a	7-4	0830	20170	Mon	185/38 Attention 54038 20197 93793 ... 24051 25889 32007 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	8-4	0745	14865	Tue	224/35 Attention 44319 48273 67449 ... 26774 70813 39298 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	9-4	0645	10800	Wed	410/32 Attention 80477 24324 29787 ... 44220 96054 62257 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	9-4	0745	17410	Wed	347/33 Attention 27927 50105 63501 ... 10144 19631 31622 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	9-4	1610	4181	Wed	393/31 Attention 93646 14338 61836 ... 88723 04849 27530 Attention (msg rptd) Out	USB	(AB)
E11a	10-4	0720	9446	Thu	430/35 Attention 50497 43185 48839 ... 74082 77121 67431 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	10-4	0745	14865	Thu	224/35 Attention 44319 48273 67449 ... 26774 70813 39298 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	11-4	0720	9446	Fri	430/35 Attention 50497 43185 48839 ... 74082 77121 67431 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	11-4	0745	17410	Fri	347/33 Attention 27927 50105 63501 ... 10144 19631 31622 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	11-4	0830	20170	Fri	185/38 Attention 54038 20197 93793 ... 24051 25889 32007 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	12-4	1610	4181	Sat	393/31 Attention 93646 14338 61836 ... 88723 04849 27530 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	14-4	0745	10213	Mon	269/36 Attention 57118 77181 96602 ... 05086 79916 80592 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	14-4	1300	5371	Mon	312/36 Attention 34830 60921 45110 ... 02809 92035 29057 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	14-4	1745	13470	Mon	242/37 Attention 34755 47920 51115 ... 20595 46117 44295 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	15-4	0715	14666	Tue	637/37 Attention 39445 06467 44046 ... 98548 43754 37832 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	15-4	0845	18168	Tue	156/36 Attention 45903 47626 24878 ... 21461 95046 25811 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	15-4	1230	12530	Tue	333/38 Attention 38260 61083 46266 ... 13278 36907 67541 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	15-4	1430	14972	Tue	911/36 Attention 34509 88201 21593 ... 87644 10069 28065 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	16-4	0930	6940	Wed	277/39 Attention 67430 65379 35912 ... 18074 42469 67923 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-4	0845	18168	Thu	156/36 Attention 45903 47626 24878 ... 21461 95046 25811 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-4	0930	6940	Thu	277/39 Attention 67430 65379 35912 ... 18074 42469 67923 Attention (msg rptd) Out	USB	(AB)
E11a	17-4	1230	12530	Thu	333/38 Attention 38260 61083 46266 ... 13278 36907 67541 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-4	1300	5371	Thu	312/36 Attention 34830 60921 45110 ... 02809 92035 29057 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	17-4	1530	10330	Thu	269/36 Attention 57118 77181 96602 ... 05086 79916 80592 Attention (msg rptd) Out	USB	(AB)
E11a	18-4	0600	8680	Fri	353/31 Attention 83993 25707 16343 ... 81586 90670 22952 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	18-4	0715	14666	Fri	637/37 Attention 39445 06467 44046 ... 98548 43754 37832 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	19-4	0700	9079	Sat	491/34 Attention 26845 68272 15554... 80301 80874 87290 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	19-4	1430	14972	Sat	911/36 Attention 34509 88201 21593 ... 87644 10069 28065 Attention (msg rptd) Out	USB	(AB-POL)
E11a	20-4	0600	8680	Sun	353/31 Attention 83993 25707 16343 ... 81586 90670 22952 Attention (msg rptd) Out	USB	(AB)
E11a	20-4	0700	9079	Sun	491/34 Attention 26845 68272 15554... 80301 80874 87290 Attention (msg rptd) Out	USB	(AB)
E11a	20-4	1745	13470	Sun	242/37 Attention 34755 47920 51115 ... 20595 46117 44295 Attention (msg rptd) Out	USB	(AB)
E11a	21-4	0845	12202	Mon	718/33 Attention 31457 10887 16140 ... 54343 45531 43810 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	21-4	1900	7317	Mon	646/38 Attention 67438 67860 04039 ... 28423 98119 02337 Attention (msg rptd) Out	USB	(AB)
E11a	22-4	0645	13470	Tue	518/37 Attention 38464 94928 16735 ... 57757 18447 78593 Attention (msg rptd) Out	USB	(AB)
E11a	22-4	1000	9951	Tue	308/21 Attention 49871 13941 14930 ... 04378 31434 52380 Attention (msg rptd) Out	USB	(AB)
E11a	22-4	1205	9399	Tue	463/32 Attention 15132 36515 95988 ... 22452 45627 30553 Attention (msg rptd) Out	USB	(AB)
E11a	23-4	0845	12202	Wed	718/33 Attention 31457 10887 16140 ... 54343 45531 43810 Attention (msg rptd) Out	USB	(Lac)
E11a	23-4	1205	9399	Wed	463/32 Attention 15132 36515 95988 ... 22452 45627 30553 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	24-4	0645	13470	Thu	518/37 Attention 38464 94928 16735 ... 57757 18447 78593 Attention (msg rptd) Out	USB	(AB)
E11a	24-4	1900	7317	Thu	646/38 Attention 67438 67860 04039 ... 28423 98119 02337 Attention (msg rptd) Out	USB	(AB)
E11a	25-4	1000	9951	Fri	308/21 Attention 49871 13941 14930 ... 04378 31434 52380 Attention (msg rptd) Out	USB	(AB)
E11a	26-4	1645	4505	Sat	363/30 Attention 82203 93042 85529 ... 22619 93560 03797 Attention ((msg rptd) Out	USB	(AB/Lac)

E11a	27-4	1645	4505	Sun	363/30 Attention 82203 93042 85529 ... 22619 93560 03797 Attention (msg rptd) Out	USB	(AB)
E11a	28-4	0600	25839	Mon	948/37 Attention 28928 27549 07160 ... 20520 17204 44606 Attention (msg rptd) Out	USB	(AB-POL)
E11a	28-4	0715	19515	Mon	750/38 Attention 15636 00370 39804 ... 59336 54316 37802 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	28-4	0900	13117	Mon	532/32 Attention 00830 99382 10010 ... 10885 98100 32347 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	28-4	1045	12385	Mon	696/22 Attention 22726 67487 17952 ... 47810 15222 35519 Attention (msg rptd) Out	USB	(AB)
E11a	29-4	0820	19184	Tue	136/39 Attention 69834 28062 51639 ... 87884 34428 35242 Attention (msg rptd) Out	USB	(Lac)
E11a	30-4	0600	25839	Wed	948/37 Attention 28928 27549 07160 ... 20520 17204 44606 Attention (msg rptd) Out	USB	(AB-POL/Lac)
E11a	30-4	0715	19515	Wed	750/38 Attention 15636 00370 39804 ... 59336 54316 37802 Attention (msg rptd) Out	USB	(AB-POL)
E11a	30-4	0820	19184	Wed	136/39 Attention 69834 28062 51639 ... 87884 34428 35242 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	30-4	0900	13117	Wed	532/32 Attention 00830 99382 10010 ... 10885 98100 32347 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	30-4	1045	12385	Wed	696/22 Attention 22726 67487 17952 ... 47810 15222 35519 Attention (msg rptd) Out	USB	(AB/Lac)
EGY	3-4	1629	19888.7	Thu	71: MFA Cairo message to RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB/Hutch)
EGY	3-4	1755	19888	Thu	66601: Egyptian embassy connecting with 99903: MFA Cairo	CODAN	(AB)
EGY	3-4	1802	19888.7	Thu	71: MFA Cairo message to RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	3-4	1910	19888	Thu	99903: MFA Cairo connecting to 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	3-4	1913	19888.7	Thu	71: MFA Cairo message to RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	22-4	0930	14622	Tue	Egyptian diplo	CODAN	(AB)
F01	1-4	1015	10177	Tue	No transmission	FSK 200/500	(AB)
F01	1-4	1025	8076	Tue	No transmission	FSK 200/500	(AB)
F01	1-4	1035	6974	Tue	No transmission	FSK 200/500	(AB)
F01	2-4	1015	10177	Wed	No transmission	FSK 200/500	(AB)
F01	2-4	1025	8076	Wed	No transmission	FSK 200/500	(AB)
F01	2-4	1035	6974	Wed	No transmission	FSK 200/500	(AB)
F01	3-4	1015	10177	Thu	No transmission	FSK 200/500	(AB)
F01	3-4	1025	8076	Thu	No transmission	FSK 200/500	(AB)
F01	3-4	1035	6974	Thu	No transmission	FSK 200/500	(AB)
F01	4-4	1015	10177	Fri	No transmission	FSK 200/500	(AB)
F01	4-4	1025	8076	Fri	No transmission	FSK 200/500	(AB)
F01	4-4	1035	6974	Fri	No transmission	FSK 200/500	(AB)
F01	7-4	1015	10177	Mon	Message 02	FSK 200/500	(AB)
F01	7-4	1025	8076	Mon	Message 02	FSK 200/500	(AB)
F01	7-4	1035	6974	Mon	Message 02	FSK 200/500	(AB)
F01	8-4	1015	10177	Tue	Messages 03 and 04	FSK 200/500	(AB/HFD)
F01	8-4	1025	8076	Tue	Messages 03 and 04	FSK 200/500	(AB/HFD)
F01	8-4	1035	6974	Tue	Messages 03 and 04	FSK 200/500	(AB/HFD)
F01	9-4	1015	10177	Wed	Message 05	FSK 200/500	(AB)
F01	9-4	1025	8076	Wed	Message 05	FSK 200/500	(AB)
F01	9-4	1035	6974	Wed	Message 05	FSK 200/500	(AB)
F01	10-4	1015	10177	Thu	Messages 06 and 07	FSK 200/500	(AB)
F01	10-4	1025	8076	Thu	Messages 06 and 07	FSK 200/500	(AB)
F01	10-4	1035	6974	Thu	Messages 06 and 07	FSK 200/500	(AB)
F01	11-4	1015	10177	Fri	00000 +++++ +++++	FSK 200/500	(AB)

F01	11-4	1025	8076	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	11-4	1035	6974	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	14-4	1015	10177	Mon	Message 08	FSK 200/500	(AB)
F01	14-4	1025	8076	Mon	Message 08	FSK 200/500	(AB)
F01	14-4	1035	6974	Mon	Message 08	FSK 200/500	(AB)
F01	15-4	1015	10177	Tue	Messages 09 and 10	FSK 200/500	(AB)
F01	15-4	1025	8076	Tue	Messages 09 and 10	FSK 200/500	(AB)
F01	15-4	1035	6974	Tue	Messages 09 and 10	FSK 200/500	(AB)
F01	16-4	1015	10177	Wed	Message 11	FSK 200/500	(AB)
F01	16-4	1025	8076	Wed	Message 11	FSK 200/500	(AB)
F01	16-4	1035	6974	Wed	Message 11	FSK 200/500	(AB)
F01	17-4	1015	10177	Thu	Messages 12 and 13	FSK 200/500	(AB)
F01	17-4	1025	8076	Thu	Messages 12 and 13	FSK 200/500	(AB)
F01	17-4	1035	6974	Thu	Messages 12 and 13	FSK 200/500	(AB)
F01	18-4	1015	10177	Fri	00000 +++++ +++++ (wrong shift)	FSK 200/1000	(AB-RUS)
F01	18-4	1025	8076	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	18-4	1035	6974	Fri	00000 +++++ +++++	FSK 200/500	(AB-RUS)
F01	21-4	1015	10177	Mon	Message 14	FSK 200/500	(AB)
F01	21-4	1025	8076	Mon	Message 14	FSK 200/500	(AB)
F01	21-4	1035	6974	Mon	Message 14	FSK 200/500	(AB)
F01	22-4	1015	10177	Tue	Messages 15 and 16	FSK 200/500	(AB)
F01	22-4	1025	8076	Tue	Messages 15 and 16	FSK 200/500	(AB)
F01	22-4	1035	6974	Tue	Messages 15 and 26	FSK 200/500	(AB)
F01	23-4	1015	10177	Wed	No transmission	FSK 200/500	(AB)
F01	23-4	1025	8076	Wed	No transmission	FSK 200/500	(AB)
F01	23-4	1035	6974	Wed	No transmission	FSK 200/500	(AB)
F01	24-4	1015	10177	Thu	Messages 17 and 18	FSK 200/500	(AB)
F01	24-4	1025	8076	Thu	Messages 17 and 18	FSK 200/500	(AB)
F01	24-4	1035	6974	Thu	Messages 17 and 18	FSK 200/500	(AB)
F01	25-4	1015	10177	Fri	00000 +++++ +++++ (wrong shift)	FSK 200/1000	(AB-RUS)
F01	25-4	1025	8076	Fri	00000 +++++ +++++ (wrong shift)	FSK 200/1000	(AB-FIN)
F01	25-4	1035	6974	Fri	00000 +++++ +++++	FSK 200/500	(AB-FIN)
F01	28-4	1015	10177	Mon	Message 19	FSK 200/500	(AB)
F01	28-4	1025	8076	Mon	Message 19	FSK 200/500	(AB)
F01	28-4	1035	6974	Mon	Message 19	FSK 200/500	(AB)
F01	29-4	1015	10177	Tue	Messages 20 and 21	FSK 200/500	(AB)
F01	29-4	1025	8076	Tue	Messages 20 and 21	FSK 200/500	(AB)
F01	29-4	1035	6974	Tue	Messages 20 and 21	FSK 200/500	(AB)
F02	1-4	1120	24678	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1151	15665	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1304	17490	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1312	17490	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)

F02	1-4	1321	16233	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1330	13590	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1332	17485	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1340	17485	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1350	13590	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	1-4	1400	11134	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	3-4	0918	16340	Thu	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	3-4	0921	16340	Thu	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	4-4	1020	16345	Fri	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	8-4	0804	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	14-4	0900	17454	Mon	Russian net	MFSK-4/150Bd/4000Hz	(AB)
F02	14-4	1213	16127	Mon	Russian net	MFSK-4/150Bd/4000Hz	(AB)
F02	16-4	0852	17452	Wed	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	28-4	1005	18935	Mon	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	28-4	1020	18935	Mon	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	28-4	1023	16320	Mon	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	28-4	1032	16320	Mon	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F03j	2-4	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-4	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-4	1030	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	2-4	1035	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-4	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-4	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-4	0700	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-4	0705	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-4	0810	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	4-4	0815	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	7-4	0810	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	7-4	0815	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	7-4	1030	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	7-4	1035	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-4	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-4	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-4	1030	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	9-4	1035	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-4	0700	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-4	0705	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-4	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-4	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-4	0700	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-4	0705	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-4	0810	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)

F03j	11-4	0815	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	14-4	0810	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	14-4	0815	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	14-4	1030	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-4	1035	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-4	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-4	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	16-4	1030	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	16-4	1035	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-4	0700	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-4	0705	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-4	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-4	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-4	0700	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-4	0705	9902	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-4	0810	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	18-4	0815	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0615	19910	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0620	19910	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0810	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	0815	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	21-4	1030	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-4	1035	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-4	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-4	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	23-4	1030	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-4	1035	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-4	0700	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-4	0705	9902	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-4	0835	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-4	0840	18030	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-4	0810	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-4	0815	21854	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-4	0615	19910	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	0620	19910	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	0630	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	0635	19515	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	0810	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	0815	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	28-4	1030	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	28-4	1035	10800	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-4	0615	19910	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-4	0620	19910	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-4	0630	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-4	0635	19515	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	30-4	1030	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-4	1035	10800	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03I	1-4	0635	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0640	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0810	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0815	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0835	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0840	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	0950	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	1500	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	1-4	1505	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	0530	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	2-4	0535	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	2-4	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	2-4	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	2-4	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	2-4	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0635	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0640	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-4	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	0850	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	0855	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	4-4	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	1500	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	4-4	1505	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-4	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0615	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0620	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0635	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	8-4	0640	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	8-4	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0810	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0815	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0835	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0840	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	0950	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	1500	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	8-4	1505	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	0530	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	9-4	0535	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	9-4	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	9-4	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	9-4	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	9-4	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0615	14398	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	10-4	0620	14398	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0635	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0640	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-4	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0850	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0855	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	1500	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	11-4	1505	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	0530	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	14-4	0535	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	14-4	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-4	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0615	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0620	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0810	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0815	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0835	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0840	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	15-4	0950	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	1500	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-4	1505	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-4	0530	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	16-4	0535	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	16-4	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	16-4	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	16-4	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-4	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-4	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-4	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0615	14398	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0620	14398	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0635	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0640	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-4	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0850	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0855	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	1500	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	18-4	1505	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	0530	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	21-4	0535	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	21-4	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-4	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	21-4	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0615	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0620	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0635	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	22-4	0640	23157	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	22-4	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0810	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0815	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0835	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0840	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	0950	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	1500	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-4	1505	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-4	0530	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	23-4	0535	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	23-4	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	23-4	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	23-4	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-4	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-4	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-4	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0635	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0640	23157	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0725	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0730	13873	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0735	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0740	10641	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0915	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	0920	6849	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	1830	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-4	1835	7798	Thu	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0850	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0855	13424	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0930	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0935	6397	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0945	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	0950	6940	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	1315	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	25-4	1320	15915	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	1500	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	25-4	1505	10298	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	0530	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	28-4	0535	20486	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	28-4	0735	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	0740	10641	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	0930	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	0935	6397	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	1010	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	1015	12153	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	1830	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-4	1835	7798	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0615	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0620	14398	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0725	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0730	13873	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0800	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0805	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0810	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0815	13424	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0835	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0840	18030	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0945	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	0950	6940	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	1500	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-4	1505	10298	Tue	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	0530	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	30-4	0535	20486	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	30-4	0800	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	30-4	0805	18030	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	30-4	0915	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	0920	6849	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	1010	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	1015	12153	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	1315	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-4	1320	15915	Wed	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F06	1-4	0030	12095	Tue	11166 60070 95123 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-4	0040	9069	Tue	11166 60070 95123 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-4	0050	8048	Tue	11166 60070 95123 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-4	0700	11054	Tue	No transmission	FSK 200/1000	(AB)
F06	1-4	0710	8189	Tue	No transmission	FSK 200/1000	(AB)

F06	1-4	0720	6952	Tue	No transmission	FSK 200/1000	(AB)
F06	1-4	1200	10388	Tue	No transmission	FSK 200/1000	(AB)
F06	1-4	1210	8084	Tue	No transmission	FSK 200/1000	(AB)
F06	1-4	1220	6780	Tue	No transmission	FSK 200/1000	(AB)
F06	1-4	1650	20971	Tue	11166 10053 15963 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-4	1700	15919	Tue	11166 10053 15963 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-4	1710	14386	Tue	11166 10053 15963 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-4	1200	10388	Wed	No transmission	FSK 200/1000	(AB)
F06	2-4	1215	8084	Wed	No transmission	FSK 200/1000	(AB)
F06	2-4	1230	6780	Wed	No transmission	FSK 200/1000	(AB)
F06	3-4	0700	11054	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	0710	8189	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	0720	6952	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	1200	10388	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	1210	8084	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	1220	6780	Thu	No transmission	FSK 200/1000	(AB)
F06	3-4	1330	20875	Thu	11166 80214 39846 03067 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-4	1340	19947	Thu	11166 80214 39846 03067 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-4	1350	14571	Thu	11166 80214 39846 03067 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-4	0700	11054	Fri	No transmission	FSK 200/1000	(AB)
F06	4-4	0710	8189	Fri	No transmission	FSK 200/1000	(AB)
F06	4-4	0720	6952	Fri	No transmission	FSK 200/1000	(AB)
F06	5-4	1700	10687	Sat	11100 00000 67193 04016 02179	FSK 200/1000	(AB/PY)
F06	5-4	1710	7992	Sat	11100 00000 67193 04016 02179	FSK 200/1000	(AB/PY)
F06	5-4	1720	5913	Sat	11100 00000 67193 04016 02179	FSK 200/1000	(PY)
F06	6-4	0830	13396	Sun	11100 00000 67193 04016 02179	FSK 200/1000	(AB/PY)
F06	6-4	0840	11123	Sun	11100 00000 67193 04016 02179	FSK 200/1000	(AB/PY)
F06	6-4	0850	9089	Sun	11100 00000 67193 04016 02179	FSK 200/1000	(AB/PY)
F06	6-4	1530	22877	Sun	11166 10053 74523 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-4	1540	20947	Sun	11166 10053 74523 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-4	1550	15893	Sun	11166 10053 74523 06001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-4	0400	9473	Mon	11166 70059 74523 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-4	0410	7556	Mon	11166 70059 74523 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-4	0420	5471	Mon	11166 70059 74523 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-4	0800	9437	Mon	11100 00000 62147 04084 03079	FSK 200/1000	(AB/PY)
F06	7-4	0810	7691	Mon	11100 00000 62147 04084 03079	FSK 200/1000	(AB)
F06	8-4	0030	12095	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	8-4	0040	9069	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	8-4	0050	8048	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	8-4	0700	11054	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)
F06	8-4	0710	8189	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)
F06	8-4	0720	6952	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)

F06	8-4	0800	9437	Tue	11100 00000 62147 04084 03079	FSK 200/1000	(AB/PY)
F06	8-4	0810	7691	Tue	11100 00000 62147 04084 03079	FSK 200/1000	(AB/PY)
F06	8-4	0820	6952	Tue	11100 00000 62147 04084 03079	FSK 200/1000	(AB-FIN)
F06	8-4	1200	10388	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)
F06	8-4	1210	8084	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)
F06	8-4	1220	6780	Tue	11166 70202 75641 07098 01959 and 11166 70202 97835 07099 02079	FSK 200/1000	(AB)
F06	8-4	1650	20971	Tue	11166 10053 25813 08078 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	8-4	1700	15919	Tue	11166 10053 25813 08078 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	8-4	1710	14386	Tue	11166 10053 25813 08078 00049 00000 00000 00000	FSK 200/1000	(AB)
F06	9-4	1200	10388	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06	9-4	1215	8084	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06	9-4	1230	6780	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06	10-4	0700	11054	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	0710	8189	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	0720	6952	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	1200	10388	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	1210	8084	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	1220	6780	Thu	11166 70202 18432 09002 01579 and 11166 70202 64328 09003 01639	FSK 200/1000	(AB)
F06	10-4	1330	20875	Thu	11166 80214 76892 09087 00049 00000 00000 00000 00000. Wrong date in the header	FSK 200/1000	(AB)
F06	10-4	1340	19947	Thu	11166 80214 76892 09087 00049 00000 00000 00000 00000. Wrong date in the header	FSK 200/1000	(AB)
F06	10-4	1350	14571	Thu	11166 80214 76892 09087 00049 00000 00000 00000 00000. Wrong date in the header	FSK 200/1000	(AB)
F06	11-4	0700	11054	Fri	11166 70202 76193 10061 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-4	0710	8189	Fri	11166 70202 76193 10061 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-4	0720	6952	Fri	11166 70202 76193 10061 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-4	1700	10687	Sat	11100 00000 65024 11017 01799	FSK 200/1000	(AB/PY)
F06	12-4	1710	7992	Sat	11100 00000 65024 11017 01799	FSK 200/1000	(AB)
F06	12-4	1720	5913	Sat	11100 00000 65024 11017 01799	FSK 200/1000	(AB)
F06	13-4	0830	13396	Sun	11100 00000 65024 11017 01799	FSK 200/1000	(AB/PY)
F06	13-4	0840	11123	Sun	11100 00000 65024 11017 01799	FSK 200/1000	(AB)
F06	13-4	0850	9089	Sun	11100 00000 65024 11017 01799	FSK 200/1000	(AB)
F06	13-4	1530	22877	Sun	11166 10053 21548 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-4	1540	20947	Sun	11166 10053 21548 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-4	1550	15893	Sun	11166 10053 21548 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-4	0800	9437	Mon	11100 00000 16485 11085 02139	FSK 200/1000	(AB-RUS/PY)
F06	14-4	0810	7691	Mon	11100 00000 16485 11085 02139	FSK 200/1000	(AB-POL/PY)
F06	15-4	0030	12095	Tue	11166 60070 32147 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-4	0040	9069	Tue	11166 60070 32147 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-4	0050	8048	Tue	11166 60070 32147 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-4	0700	11054	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB)
F06	15-4	0710	8189	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB)
F06	15-4	0720	6952	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB)
F06	15-4	0800	9437	Tue	11100 00000 16485 11085 02139	FSK 200/1000	(AB-RUS/PY)

F06	15-4	0810	7691	Tue	11100 00000 16485 11085 02139	FSK 200/1000	(AB-POL)
F06	15-4	1200	10388	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB/RL-HOL)
F06	15-4	1210	8084	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB)
F06	15-4	1220	6780	Tue	11166 70202 65890 14005 00779 and 11166 70202 36172 14006 02319	FSK 200/1000	(AB)
F06	15-4	1650	20971	Tue	11166 10053 13467 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-4	1700	15919	Tue	11166 10053 13467 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL-HOL)
F06	15-4	1710	14386	Tue	11166 10053 13467 15001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-4	1200	10388	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06	16-4	1215	8084	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06	16-4	1230	6780	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06	17-4	0700	11054	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	0710	8189	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	0720	6952	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	1200	10388	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	1210	8084	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	1220	6780	Thu	11166 70202 79165 16008 02119 and 11166 70202 16879 16009 01779	FSK 200/1000	(AB)
F06	17-4	1330	20875	Thu	11166 80214 87451 17011 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-4	1340	19947	Thu	11166 80214 87451 17011 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	17-4	1350	14571	Thu	11166 80214 87451 17011 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-4	0700	11054	Fri	11166 70202 85432 17045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-4	0710	8189	Fri	11166 70202 85432 17045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-4	0720	6952	Fri	11166 70202 85432 17045 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-4	1700	10687	Sat	11100 00000 18639 18018 01959	FSK 200/1000	(AB/PY)
F06	19-4	1710	7992	Sat	11100 00000 18639 18018 01959	FSK 200/1000	(AB)
F06	19-4	1720	5913	Sat	11100 00000 18639 18018 01959	FSK 200/1000	(AB)
F06	20-4	0830	13396	Sun	11100 00000 18639 18018 01959	FSK 200/1000	(AB/PY)
F06	20-4	0840	11123	Sun	11100 00000 18639 18018 01959	FSK 200/1000	(AB)
F06	20-4	0850	9089	Sun	11100 00000 18639 18018 01959	FSK 200/1000	(AB)
F06	20-4	1530	22877	Sun	11166 10053 25813 20078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-4	1540	20947	Sun	11166 10053 25813 20078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-4	1550	15893	Sun	11166 10053 25813 20078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-4	0400	9473	Mon	11166 70059 85279 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-4	0410	7556	Mon	11166 70059 85279 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-4	0420	5471	Mon	11166 70059 85279 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-4	0800	9437	Mon	11100 00000 15739 18086 01039	FSK 200/1000	(AB-RUS/PY)
F06	21-4	0810	7691	Mon	11100 00000 15739 18086 01039	FSK 200/1000	(AB-FIN/PY)
F06	22-4	0030	12095	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	22-4	0040	9069	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	22-4	0050	8048	Tue	Too weak to decode	FSK 200/1000	(AB)
F06	22-4	0700	11054	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)
F06	22-4	0710	8189	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)
F06	22-4	0720	6952	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)

F06	22-4	0800	9437	Tue	11100 00000 15739 18086 01039	FSK 200/1000	(AB-RUS/PY)
F06	22-4	0810	7691	Tue	11100 00000 15739 18086 01039	FSK 200/1000	(AB-POL/PY)
F06	22-4	0820	5783	Tue	11100 00000 15739 18086 01039	FSK 200/1000	(PY)
F06	22-4	1200	10388	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)
F06	22-4	1210	8084	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)
F06	22-4	1220	6780	Tue	11166 70202 15284 21011 01919 and 11166 70202 96548 21012 02039	FSK 200/1000	(AB)
F06	22-4	1650	20971	Tue	11166 10053 15487 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-4	1700	15919	Tue	11166 10053 15487 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-4	1710	14386	Tue	11166 10053 15487 22001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-4	1200	10388	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06	23-4	1215	8084	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06	23-4	1230	6780	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06	24-4	0700	11054	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	0710	8189	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	0720	6952	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	1200	10388	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	1210	8084	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	1220	6780	Thu	11166 70202 45879 23014 01939 and 11166 70202 94128 23015 02139	FSK 200/1000	(AB)
F06	24-4	1330	20875	Thu	11166 80214 37456 23098 00049 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	24-4	1340	19947	Thu	11166 80214 37456 23098 00049 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	24-4	1350	14571	Thu	11166 80214 37456 23098 00049 00000 00000 00000 (wrong date in the header)	FSK 200/1000	(AB)
F06	25-4	0700	11054	Fri	11166 70202 93452 25097 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-4	0710	8189	Fri	11166 70202 93452 25097 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-4	0720	6952	Fri	11166 70202 93452 25097 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	26-4	1700	10687	Sat	11100 00000 21684 25019 02379	FSK 200/1000	(AB/PY)
F06	26-4	1710	7992	Sat	11100 00000 21684 25019 02379	FSK 200/1000	(AB)
F06	26-4	1720	5913	Sat	11100 00000 21684 25019 02379	FSK 200/1000	(AB)
F06	27-4	0830	13396	Sun	11100 00000 21684 25019 02379	FSK 200/1000	(AB/PY)
F06	27-4	0840	11123	Sun	11100 00000 21684 25019 02379	FSK 200/1000	(AB/PY)
F06	27-4	0850	9089	Sun	11100 00000 21684 25019 02379	FSK 200/1000	(AB)
F06	27-4	1530	22877	Sun	11166 10053 74523 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-4	1540	20947	Sun	11166 10053 74523 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	27-4	1550	15893	Sun	11166 10053 74523 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-4	0800	9437	Mon	11100 00000 56481 25087 01939	FSK 200/1000	(AB-RUS/PY)
F06	28-4	0810	7691	Mon	11100 00000 56481 25087 01939	FSK 200/1000	(PY)
F06	29-4	0030	12095	Tue	11166 60070 15487 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-4	0040	9069	Tue	11166 60070 15487 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-4	0050	8048	Tue	11166 60070 15487 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-4	0700	11054	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	0710	8189	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	0720	6952	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	0800	9437	Tue	11100 00000 56481 25087 01939	FSK 200/1000	(AB-RUS/PY)

F06	29-4	0810	7691	Tue	unreadable	FSK 200/1000	(AB-POL)
F06	29-4	1200	10388	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	1210	8084	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	1220	6780	Tue	11166 70202 24685 28017 01539 and 11166 70202 34685 28018 02099	FSK 200/1000	(AB)
F06	29-4	1650	20971	Tue	11166 10053 32147 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-4	1700	15919	Tue	11166 10053 32147 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-4	1710	14386	Tue	11166 10053 32147 29001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-4	1200	10388	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F06	30-4	1215	8084	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F06	30-4	1230	6780	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	0500	18188	Tue	Message (binary contents)	FSK 200/1000	(AB)
F06a	1-4	0515	20923	Tue	Message (binary contents)	FSK 200/1000	(AB)
F06a	1-4	0530	23451	Tue	Message (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1300	20917	Tue	File 04417 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1315	17521	Tue	File 04417 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1330	14441	Tue	File 04417 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1500	12203	Tue	File 04418 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1515	11113	Tue	File 04418 (binary contents)	FSK 200/1000	(AB)
F06a	1-4	1530	10178	Tue	File 04418 (binary contents)	FSK 200/1000	(AB)
F06a	2-4	0700	11054	Wed	No transmission	FSK 200/1000	(AB)
F06a	2-4	0715	8189	Wed	No transmission	FSK 200/1000	(AB)
F06a	2-4	0730	6952	Wed	No transmission	FSK 200/1000	(AB)
F06a	4-4	1130	14928	Fri	File 04402 (binary contents)	FSK 200/1000	(AB)
F06a	4-4	1500	12213	Fri	Files 44442 and 44443 (binary contents)	FSK 200/1000	(AB)
F06a	4-4	1515	10578	Fri	Files 44442 and 44443 (binary contents)	FSK 200/1000	(AB)
F06a	4-4	1530	8077	Fri	Files 44442 and 44443 (binary contents)	FSK 200/1000	(AB)
F06a	5-4	0300	11167	Sat	File 44413 (388 bytes, binary contents)	FSK 200/1000	(PY)
F06a	7-4	0700	11054	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	7-4	0715	8189	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	7-4	0730	6952	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	7-4	1200	10388	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	7-4	1215	8084	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	7-4	1230	6780	Mon	File 44497 (binary contents)	FSK 200/1000	(AB)
F06a	9-4	0600	14763	Wed	File 14437 (binary contents)	FSK 200/1000	(AB/PY)
F06a	9-4	0615	16325	Wed	File 14437 (binary contents)	FSK 200/1000	(AB)
F06a	9-4	0630	19561	Wed	File 14437 (binary contents)	FSK 200/1000	(AB)
F06a	9-4	0700	11054	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06a	9-4	0715	8189	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06a	9-4	0730	6952	Wed	File 44401 (binary contents)	FSK 200/1000	(AB)
F06a	10-4	0600	14763	Thu	File 14437 (binary contents)	FSK 200/1000	(AB)
F06a	10-4	0615	16325	Thu	File 14437 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-4	0630	19561	Thu	File 14437 (binary contents)	FSK 200/1000	(AB)

F06a	11-4	0500	13398	Fri	Files 44444 and 44445 (binary contents)	FSK 200/1000	(AB)
F06a	11-4	0515	11125	Fri	Files 44444 and 44445 (binary contents)	FSK 200/1000	(AB)
F06a	11-4	0530	9091	Fri	Files 44444 and 44445 (binary contents)	FSK 200/1000	(AB)
F06a	12-4	0300	11167	Sat	File 44413 (388 bytes, binary contents)	FSK 200/1000	(PY)
F06a	12-4	0315	13851	Sat	File 44413 (388 bytes, binary contents)	FSK 200/1000	(PY)
F06a	12-4	0330	14355	Sat	File 44413 (388 bytes, binary contents)	FSK 200/1000	(PY)
F06a	14-4	0700	11054	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	14-4	0715	8189	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	14-4	0730	6952	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	14-4	1200	10388	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	14-4	1215	8084	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	14-4	1230	6780	Mon	File 44404 (binary contents)	FSK 200/1000	(AB)
F06a	16-4	0600	14763	Wed	File 41438 (binary contents)	FSK 200/1000	(AB/PY)
F06a	16-4	0615	16325	Wed	File 41438 (binary contents)	FSK 200/1000	(AB)
F06a	16-4	0630	19561	Wed	File 41438 (binary contents)	FSK 200/1000	(AB)
F06a	16-4	0700	11054	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06a	16-4	0715	8189	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06a	16-4	0730	6952	Wed	File 44407 (binary contents)	FSK 200/1000	(AB)
F06a	17-4	0600	14763	Thu	File 41438 (binary contents)	FSK 200/1000	(AB/PY)
F06a	17-4	0615	16325	Thu	File 41438 (binary contents)	FSK 200/1000	(AB)
F06a	17-4	0630	19561	Thu	File 41438 (binary contents)	FSK 200/1000	(AB)
F06a	19-4	0300	11167	Sat	89 blocks, 1 msg (probably msg serial #16)	FSK 200/1000	(PY)
F06a	19-4	0315	13851	Sat	89 blocks, 1 msg (probably msg serial #16)	FSK 200/1000	(PY)
F06a	19-4	0330	14355	Sat	89 blocks, 1 msg (probably msg serial #16)	FSK 200/1000	(PY)
F06a	21-4	0700	11054	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	21-4	0715	8189	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	21-4	0730	6952	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	21-4	1200	10388	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	21-4	1215	8084	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	21-4	1230	6780	Mon	File 44410 (binary contents)	FSK 200/1000	(AB)
F06a	22-4	1155	11611	Tue	File _DI79993.096 (binary contents)	FSK 200/1000	(AB)
F06a	23-4	0600	14763	Wed	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB/PY)
F06a	23-4	0615	16325	Wed	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB/PY)
F06a	23-4	0630	19561	Wed	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB)
F06a	23-4	0700	11054	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	23-4	0715	8189	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	23-4	0730	6952	Wed	File 44413 (binary contents)	FSK 200/1000	(AB)
F06a	24-4	0600	14763	Thu	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB/PY)
F06a	24-4	0615	16325	Thu	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB)
F06a	24-4	0630	19561	Thu	File 44739 (binary contents, empty text header)	FSK 200/1000	(AB)
F06a	25-4	1900	12187	Fri	File 44041 (binary contents)	FSK 200/1000	(PY)
F06a	25-4	1915	11533	Fri	File 44041 (binary contents)	FSK 200/1000	(PY)

F06a	25-4	1930	10186	Fri	File 44041 (binary contents)	FSK 200/1000	(PY)
F06a	26-4	0300	11167	Sat	File 74417 (1296 bytes, binary contents)	FSK 200/1000	(PY)
F06a	26-4	0315	13851	Sat	File 74417 (1296 bytes, binary contents)	FSK 200/1000	(PY)
F06a	26-4	0330	14355	Sat	File 74417 (1296 bytes, binary contents)	FSK 200/1000	(PY)
F06a	26-4	0600	11464	Sat	File 44041 (binary contents)	FSK 200/1000	(AB)
F06a	26-4	0615	10231	Sat	File 44041 (binary contents)	FSK 200/1000	(AB)
F06a	26-4	0630	9070	Sat	File 44041 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	0700	11054	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	0715	8189	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	0730	6952	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	1200	10388	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	1215	8084	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	28-4	1230	6780	Mon	File 44416 (binary contents)	FSK 200/1000	(AB)
F06a	30-4	0600	14763	Wed	File 42440 (binary contents)	FSK 200/1000	(AB/PY)
F06a	30-4	0615	16325	Wed	File 42440 (binary contents)	FSK 200/1000	(AB)
F06a	30-4	0630	19561	Wed	File 42440 (binary contents)	FSK 200/1000	(AB)
F06a	30-4	0700	11054	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	30-4	0715	8189	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	30-4	0730	6952	Wed	File 44419 (binary contents)	FSK 200/1000	(AB)
F07	1-4	2000	14541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-4	2010	13526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-4	2020	12214	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-4	2030	11476	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-4	2040	10283	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	1-4	2050	9367	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-4	2000	14541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	3-4	2010	13526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	3-4	2020	12214	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	3-4	2030	11476	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	3-4	2040	10283	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	3-4	2050	9367	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB/RL)
F07	8-4	2000	14541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	8-4	2010	13526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	8-4	2020	12214	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	8-4	2030	11476	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	8-4	2040	10283	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	8-4	2050	9367	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-4	2000	14541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-4	2010	13526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-4	2020	12214	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-4	2030	11476	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	10-4	2040	10283	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	10-4	2050	9367	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2000	14541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2010	13526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2020	12214	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2030	11476	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2040	10283	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	15-4	2050	9367	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2000	14541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2010	13526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2020	12214	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2030	11476	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2040	10283	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	17-4	2050	9367	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2000	14541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2010	13526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2020	12214	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2030	11476	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2040	10283	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	22-4	2050	9367	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2000	14541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2010	13526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2020	12214	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2030	11476	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2040	10283	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	24-4	2050	9367	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2000	14541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2010	13526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2020	12214	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2030	11476	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2040	10283	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	29-4	2050	9367	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
FO6a	2-4	0600	14763	Wed	File 44936 (1194 bytes)	FSK 200/1000	(PY)
FO6a	2-4	0615	16325	Wed	File 44936 (1194 bytes)	FSK 200/1000	(PY)
FO6a	2-4	0630	19561	Wed	File 44936 (1194 bytes)	FSK 200/1000	(PY)
FO6a	3-4	0600	14763	Thu	File 44936 (1194 bytes)	FSK 200/1000	(PY)
FO6a	3-4	0615	16325	Thu	File 44936 (1194 bytes)	FSK 200/1000	(PY)
FO6a	3-4	0630	19561	Thu	File 44936 (1194 bytes)	FSK 200/1000	(PY)
KRE	1-4	1454	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	1-4	1459	16252	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	1-4	1517	16252	Tue	DPRK embassy Moscow clg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
KRE	1-4	1519	16252	Tue	DPRK embassy Moscow clg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)
KRE	3-4	0639	11045	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK-ARQ 600/600 LSB	(AB)

KRE	3-4	0640	14222	Thu	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	3-4	0704	12650	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	3-4	0707	14666	Thu	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
KRE	4-4	0706	11045	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	4-4	0722	16120	Fri	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK-ARQ 600/600 LSB	(AB)
KRE	14-4	0728	14300	Mon	DPRK embassy Moscow clg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	14-4	0807	15500	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
KRE	14-4	1418	16252	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	17-4	0707	12499	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	18-4	1308	16252	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK-ARQ 600/600 LSB	(AB)
KRE	22-4	0700	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK-ARQ 600/600 LSB	(AB)
KRE	23-4	0730	14200	Wed	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK-ARQ 600/600 LSB	(AB)
KRE	23-4	0730	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	23-4	0804	15500	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-4	0634	14820	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	24-4	0908	17450	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	25-4	0815	15500	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	29-4	1208	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK-ARQ 600/600 LSB	(AB)
KRE	30-4	0748	13100	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	30-4	0748	13222	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	30-4	1204	13100	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
KRE	30-4	1205	13222	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK-ARQ 600/600 LSB	(AB)
KRE	30-4	1457	13200	Wed	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK-ARQ 600/600 LSB	(AB)
KRE	30-4	1458	13120	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK-ARQ 1200/600 LSB	(AB)
M01	1-4	1800	5475	Tue	463 891 891 30 30 = = 57949 58901 47857 ... 57894 57463 57819 48712 891 891 30 30 000 (32 groups were sent)	CW	(AB)
M01	1-4	1959	5020	Tue	463 817 817 30 30 = = 57483 48391 48573 ... 38716 48736 28719 817 817 30 30 000	CW	(AB)
M01	3-4	1800	5475	Thu	463 653 653 30 30 = = 57687 25436 11324 ... 58769 13240 90987 = = 653 653 30 30 000	CW	(AB)
M01	8-4	1800	5475	Tue	463 645 645 30 30 = = 87690 41321 22314 ... 43043 67580 86793 = = 645 645 30 30 000	CW	(AB)
M01	10-4	1800	5475	Thu	463 120 120 30 30 = = 82736 48290 18273 ... 19283 28374 18293 = = 120 120 30 30 000	CW	(AB)
M01	10-4	2000	5020	Thu	463 713 713 713 30 30 = = 82736 71829 30944 ... 28374 18275 19283 = = 713 713 30 30 000	CW	(AB)
M01	15-4	1800	5475	Tue	463 472 472 30 30 = = 54672 16514 10154 ... 20174 30184 20713 = = 472 472 30 30 000	CW	(AB)
M01	17-4	1800	5475	Thu	463 626 626 30 30 40930 84390 10493 ... 54300 95403 94920 626 626 30 30 000	CW	(AB)
M01	17-4	2000	5020	Thu	463 696 696 30 30 00493 84393 86953 ... 01960 94381 94035 696 696 30 330 000	CW	(AB)
M01	19-4	1500	6260	Sat	463 401 401 30 30 = = 51091 15427 17615 ... 33018 46371 60919 = = 401 401 30 30 000	CW	(AB)
M01	20-4	0715	7115	Sun	475 217 50 = 28173 ...	CW	(HFD)
M01	22-4	1800	5475	Tue	463 676 676 30 30 10045 85430 85437 ... 01864 85493 91345 676 676 30 30 000	CW	(AB)
M01	22-4	2000	5020	Tue	463 767 767 30 30 66010 85491 86033 ... 71940 95433 85930 767 767 30 30 000	CW	(AB)
M01	24-4	2000	5020	Thu	463 080 080 30 30 = = 75684 34512 46571 76583 7653 067606 080 080 30 30 000	CW	(AB)
M01	27-4	0703	6510	Sun	463 859 859 30 30 = = 73647 82883 19203 ... 28374 28374 57489 = = 859 859 30 30 000	CW	(AB)
M01	29-4	1800	5475	Tue	463 344 344 30 30 = = 65743 23421 12322 ... 54675 07989 0798 = = 344 344 30 30 000	CW	(AB)

M01	29-4	2000	5020	Tue	463 543 543 30 30 = = 54098 53401 23056 ... 54612122 22 6584 683 543 543 30 30 000	CW	(AB)
M12	1-4	1100	11519	Tue	289 289 289 1 9410 59 9410 59 24843 20225 27432 ... 07365 82210 53984 000 000	CW	(AB)
M12	1-4	1120	12194	Tue	289 289 289 1 9410 59 9410 59 24843 20225 27432 ... 07365 82210 53984 000 000	CW	(AB)
M12	1-4	1140	13407	Tue	289 289 289 1 9410 59 9410 59 24843 20225 27432 ... 07365 82210 53984 000 000	CW	(AB)
M12	2-4	1900	13564	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB/RL/HFD)
M12	2-4	1920	12164	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB/RL/HFD)
M12	2-4	1940	11164	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB/RL/HFD)
M12	2-4	2330	12223	Wed	792 792 792 1 6714 159 6714 159 11823 64493 82323 ... 74391 02787 41857 000 000	CW	(RL)
M12	2-4	2330	13923	Wed	792 792 792 1 6714 159 6714 159 11823 64493 82323 ... 74391 02787 41857 000 000	CW	(RL)
M12	3-4	1800	11435	Thu	938 938 938 1 8580 78 8580 78 17137 82433 41950 ... 66887 06481 67838 000 000	CW	(AB)
M12	3-4	1820	10598	Thu	938 938 938 1 8580 78 8580 78 17137 82433 41950 ... 66887 06481 67838 000 000	CW	(AB)
M12	3-4	1840	9327	Thu	938 938 938 1 8580 78 8580 78 17137 82433 41950 ... 66887 06481 67838 000 000	CW	(AB)
M12	3-4	2000	12139	Thu	234 234 234 000	CW	(AB/RL/HFD)
M12	3-4	2020	11139	Thu	234 234 234 000	CW	(AB/RL/HFD)
M12	4-4	1900	13564	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	4-4	1920	12164	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	4-4	1940	11164	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	4-4	2100	7575	Fri	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB/HFD)
M12	4-4	2120	8175	Fri	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB/HFD)
M12	4-4	2140	9175	Fri	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB/HFD)
M12	5-4	2100	7575	Sat	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB)
M12	5-4	2120	8175	Sat	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB)
M12	5-4	2140	9175	Sat	511 511 511 1 6002 67 6002 67 85454 38893 00724 ... 53078 85365 79320 000 000	CW	(AB)
M12	7-4	0710	11519	Mon	289 289 289 1 3414 66 3414 66 95975 15407 55288 ... 95899 62789 16930 000 000	CW	(PY)
M12	7-4	0730	12194	Mon	289 289 289 1 3414 66 3414 66 95975 15407 55288 ... 95899 62789 16930 000 000	CW	(PY)
M12	7-4	0750	13407	Mon	289 289 289 1 3414 66 3414 66 95975 15407 55288 ... 95899 62789 16930 000 000	CW	(PY)
M12	7-4	0800	12217	Mon	243 243 243 1 4042 151 4042 151 01974 72269 04932 ... 33763 73634 05232 000 000	CW	(Karman)
M12	7-4	0810	11519	Mon	289 289 289 1 5255 63 5255 63 15717 74617 82734 ... 18040 06398 71105 000 000	CW	(PY)
M12	7-4	0820	11467	Mon	243 243 243 1 4042 151 4042 151 01974 72269 04932 ... 33763 73634 05232 000 000	CW	(Karman)
M12	7-4	0830	12194	Mon	289 289 289 1 5255 63 5255 63 15717 74617 82734 ... 18040 06398 71105 000 000	CW	(PY)
M12	7-4	0840	10348	Mon	243 243 243 1 4042 151 4042 151 01974 72269 04932 ... 33763 73634 05232 000 000	CW	(Karman)
M12	7-4	0850	13407	Mon	289 289 289 1 5255 63 5255 63 15717 74617 82734 ... 18040 06398 71105 000 000	CW	(PY)
M12	7-4	0910	11519	Mon	289 289 289 1 1237 60 1237 60 07554 79950 74070 ... 04490 59512 99004 000 000	CW	(PY)
M12	7-4	0930	12194	Mon	289 289 289 1 1237 60 1237 60 07554 79950 74070 ... 04490 59512 99004 000 000	CW	(PY)
M12	7-4	0950	13407	Mon	289 289 289 1 1237 60 1237 60 07554 79950 74070 ... 04490 59512 99004 000 000	CW	(PY)
M12	7-4	2000	12139	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	7-4	2020	11139	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	7-4	2040	10239	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	8-4	0300	18767	Tue	742 742 742 1 ...	CW	(HFD-J)
M12	8-4	0320	17467	Tue	742 742 742 1 ...	CW	(HFD-J)
M12	8-4	0340	16267	Tue	742 742 742 1 ...	CW	(HFD-J)
M12	8-4	1100	11519	Tue	289 289 289 1 8840 57 8840 57 66868 54356 79501 ... 85894 19201 50961 000 000	CW	(AB)

M12	8-4	1120	12194	Tue	289 289 289 1 8840 57 8840 57 66868 54356 79501 ... 85894 19201 50961 000 000	CW	(AB)
M12	8-4	1140	13407	Tue	289 289 289 1 8840 57 8840 57 66868 54356 79501 ... 85894 19201 50961 000 000	CW	(AB)
M12	9-4	1900	13564	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	9-4	1920	12164	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	9-4	1940	11164	Wed	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	9-4	2310	14723	Wed	792 792 792 1 ...	CW	(HFD)
M12	9-4	2330	13923	Wed	792 792 792 1 ...	CW	(HFD)
M12	9-4	2350	12223	Wed	792 792 792 1 ...	CW	(HFD)
M12	10-4	1800	11435	Thu	938 938 938 1 3215 83 3215 83 13908 62885 85013 ... 57458 30040 74105 000 000	CW	(AB)
M12	10-4	1820	10598	Thu	938 938 938 1 3215 83 3215 83 13908 62885 85013 ... 57458 30040 74105 000 000	CW	(AB)
M12	10-4	1840	9327	Thu	938 938 938 1 3215 83 3215 83 13908 62885 85013 ... 57458 30040 74105 000 000	CW	(AB)
M12	10-4	2000	12139	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	10-4	2020	11139	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	10-4	2040	10239	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB)
M12	11-4	0800	12217	Fri	243 243 243 1 4042 151 4042 151 51974 72269 04932 ... 33763 73634 05232 000 000	CW	(AB-J/HFD-RUS)
M12	11-4	0820	11467	Fri	243 243 243 1 4042 151 4042 151 51974 72269 04932 ... 33763 73634 05232 000 000	CW	(AB-J/HFD-RUS)
M12	11-4	0840	10348	Fri	243 243 243 1 4042 151 4042 151 51974 72269 04932 ... 33763 73634 05232 000 000	CW	(AB-J/HFD-RUS)
M12	11-4	1900	13564	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	11-4	1920	12164	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	11-4	1940	11164	Fri	511 511 511 1 263 33 263 33 46495 66535 00618 ... 17392 11155 03452 000 000	CW	(AB)
M12	11-4	2100	7575	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	11-4	2120	8175	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	11-4	2140	9175	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	12-4	2100	7575	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	12-4	2120	8175	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	12-4	2140	9175	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	14-4	0800	12217	Mon	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	14-4	0820	11467	Mon	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	14-4	0840	10348	Mon	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	14-4	1230	12205	Mon	973 973 973 2 7190 60 7190 60 79183 49789 86774 ... 00773 70894 40734 973 973 973 2 3974 29 3974 29 30405 17722 59746 ... 69220 38242 76438 000 000	CW	(PY)
M12	14-4	1250	13559	Mon	973 973 973 2 7190 60 7190 60 79183 49789 86774 ... 00773 70894 40734 973 973 973 2 3974 29 3974 29 30405 17722 59746 ... 69220 38242 76438 000 000 Restart during callup	CW	(PY)
M12	14-4	1310	14728	Mon	973 973 973 2 7190 60 7190 60 79183 49789 86774 ... 00773 70894 40734 973 973 973 2 3974 29 3974 29 30405 17722 59746 ... 69220 38242 76438 000 000	CW	(PY/AB)
M12	14-4	1330	12205	Mon	973 973 973 2 2512 29 2512 29 07531 75065 36367 ... 38514 5926 41536 973 973 973 2 1440 58 1440 58 76231 35594 86200 ... 54728 53653 32769 000 000	CW	(PY)
M12	14-4	1350	13559	Mon	973 973 973 2 2512 29 2512 29 07531 75065 36367 ... 38514 5926 41536 973 973 973 2 1440 58 1440 58 76231 35594 86200 ... 54728 53653 32769 000 000	CW	(PY)

M12	14-4	1410	14728	Mon	973 973 973 2 2512 29 2512 29 07531 75065 36367 ... 38514 5926 41536 973 973 973 2 1440 58 1440 58 76231 35594 86200 ... 54728 53653 32769 000 000	CW	(PY/AB)
M12	14-4	2000	12139	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	14-4	2020	11139	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	14-4	2040	10239	Mon	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	15-4	1100	11519	Tue	289 289 289 1 9164 60 9164 60 00448 62916 31029 ... 92824 41255 07457 000 000	CW	(AB)
M12	15-4	1120	12194	Tue	289 289 289 1 9164 60 9164 60 00448 62916 31029 ... 92824 41255 07457 000 000	CW	(AB)
M12	15-4	1140	13407	Tue	289 289 289 1 9164 60 9164 60 00448 62916 31029 ... 92824 41255 07457 000 000	CW	(AB)
M12	16-4	1900	13564	Wed	511 511 511 000	CW	(AB)
M12	16-4	1920	12164	Wed	511 511 511 000	CW	(AB)
M12	16-4	2330	13923	Wed	792 792 792 1 428 178 428 178 72565 02557 19191 ... 33512 01704 76505 000 000	CW	(RL)
M12	16-4	2350	12223	Wed	792 792 792 1 428 178 428 178 72565 02557 19191 ... 33512 01704 76505 000 000	CW	(RL)
M12	17-4	1800	11435	Thu	938 938 938 1 4106 80 4106 80 ... (too weak to copy)	CW	(AB)
M12	17-4	1820	10598	Thu	938 938 938 1 4106 80 4106 80 ... (too weak to copy)	CW	(AB)
M12	17-4	1840	9327	Thu	938 938 938 1 4106 80 4106 80 ... (too weak to copy)	CW	(AB)
M12	17-4	2000	12139	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	17-4	2020	11139	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	17-4	2040	10239	Thu	234 234 234 1 945 36 945 36 73294 70413 63514 ... 18094 37208 26079 000 000	CW	(AB/RL)
M12	18-4	0800	12217	Fri	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	18-4	0820	11467	Fri	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	18-4	0840	10348	Fri	243 243 243 1 1070 103 1070 103 32187 15593 77087 ... 15508 11368 12832 000 000	CW	(AB-KOR)
M12	18-4	1900	13564	Fri	511 511 511 000	CW	(AB)
M12	18-4	1920	12164	Fri	511 511 511 000	CW	(AB)
M12	18-4	2100	7575	Fri	511 511 511 1 1484 117 1484 117 66948 94998 18188 ... 75413 51100 80666 000 000	CW	(AB)
M12	18-4	2100	7575	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	18-4	2120	8175	Fri	511 511 511 1 1484 117 1484 117 66948 94998 18188 ... 75413 51100 80666 000 000	CW	(AB)
M12	18-4	2120	8175	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	18-4	2140	9175	Fri	511 511 511 1 1484 117 1484 117 66948 94998 18188 ... 75413 51100 80666 000 000	CW	(AB)
M12	18-4	2140	9175	Fri	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	19-4	2100	7575	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	19-4	2120	8175	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	19-4	2140	9175	Sat	511 511 511 1 3966 237 3956 237 23211 14480 31581 ... 71829 67919 72146 000 000	CW	(AB)
M12	21-4	0800	12217	Mon	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	21-4	0820	11467	Mon	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	21-4	0840	10348	Mon	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	21-4	2000	12139	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	21-4	2020	11139	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	21-4	2040	10239	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	22-4	1100	11519	Tue	289 289 289 1 3420 62 3420 62 75954 36951 19794 ... 73947 70300 65117 000 000	CW	(AB)
M12	22-4	1120	12194	Tue	289 289 289 1 3420 62 3420 62 75954 36951 19794 ... 73947 70300 65117 000 000	CW	(AB)
M12	22-4	1140	13407	Tue	289 289 289 1 3420 62 3420 62 75954 36951 19794 ... 73947 70300 65117 000 000	CW	(AB)
M12	23-4	1900	13564	Wed	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)

M12	23-4	1900	12162	Wed	546 546 546 1 4888 59 4888 59 94597 83763 40354 ... 82165 39243 31302 000 000	CW	(PY)
M12	23-4	1920	12164	Wed	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)
M12	23-4	1920	11566	Wed	546 546 546 1 4888 59 4888 59 94597 83763 40354 ... 82165 39243 31302 000 000 TX failure and restart in callup	CW	(PY)
M12	23-4	1940	11164	Wed	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)
M12	23-4	1940	10711	Wed	546 546 546 1 4888 59 4888 59 94597 83763 40354 ... 82165 39243 31302 000 000	CW	(PY)
M12	24-4	1800	11435	Thu	938 938 938 1 6656 81 6656 81 80091 91643 78727 ... 70578 48398 71721 000 000	CW	(AB)
M12	24-4	1820	10598	Thu	938 938 938 1 6656 81 6656 81 80091 91643 78727 ... 70578 48398 71721 000 000	CW	(AB)
M12	24-4	1840	9327	Thu	938 938 938 1 6656 81 6656 81 80091 91643 78727 ... 70578 48398 71721 000 000	CW	(AB)
M12	24-4	2000	12139	Thu	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	24-4	2020	11139	Thu	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	24-4	2040	10239	Thu	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	25-4	0800	12217	Fri	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	25-4	0820	11467	Fri	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	25-4	0840	10348	Fri	243 243 243 1 6789 147 6789 147 97582 13673 29623 ... 71273 94389 05224 000 000	CW	(AB-KOR)
M12	25-4	1900	13564	Fri	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)
M12	25-4	1920	12164	Fri	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)
M12	25-4	1940	11164	Fri	511 511 511 1 9630 49 9630 49 06260 73197 38605 ... 13242 82910 65406 000 000	CW	(AB)
M12	26-4	1900	12162	Sat	546 546 546 1 2786 55 2786 55 61526 12298 91055 ... 53302 08215 40050 000 000	CW	(PY)
M12	26-4	1920	11566	Sat	546 546 546 1 2786 55 2786 55 61526 12298 91055 ... 53302 08215 40050 000 000	CW	(PY)
M12	26-4	1940	10711	Sat	546 546 546 1 2786 55 2786 55 61526 12298 91055 ... 53302 08215 40050 000 000	CW	(PY)
M12	28-4	0800	12217	Mon	243 243 243 1 5373 127 5373 127 75052 89612 90650 ... 17628 48285 57010 000 000	CW	(AB-KOR)
M12	28-4	0820	11467	Mon	243 243 243 1 5373 127 5373 127 75052 89612 90650 ... 17628 48285 57010 000 000	CW	(AB-KOR)
M12	28-4	0840	10348	Mon	243 243 243 1 5373 127 5373 127 75052 89612 90650 ... 17628 48285 57010 000 000	CW	(AB-KOR)
M12	28-4	1230	14377	Mon	317 317 317 1 5474 58 5474 58 33948 35226 30584 ... 06576 48383 98381 000 000	CW	(PY)
M12	28-4	1250	13461	Mon	317 317 317 1 5474 58 5474 58 33948 35226 30584 ... 06576 48383 98381 000 000	CW	(PY)
M12	28-4	1310	12114	Mon	317 317 317 1 5474 58 5474 58 33948 35226 30584 ... 06576 48383 98381 000 000	CW	(PY)
M12	28-4	1330	14377	Mon	317 317 317 1 5346 123 5346 123 50307 86740 68579 ... 49080 02667 16878 000 000	CW	(PY)
M12	28-4	1350	13461	Mon	317 317 317 1 5346 123 5346 123 50307 86740 68579 ... 49080 02667 16878 000 000	CW	(PY)
M12	28-4	1410	12114	Mon	317 317 317 1 5346 123 5346 123 50307 86740 68579 ... 49080 02667 16878 000 000	CW	(PY)
M12	28-4	2000	12139	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	28-4	2020	11139	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	28-4	2040	10239	Mon	234 234 234 1 487 43 587 43 31051 77777 07407 ... 68036 49457 72552 000 000	CW	(AB)
M12	29-4	1100	11519	Tue	289 289 289 1 8401 59 8401 59 14561 89383 95977 ... 80573 83732 39036 000 000	CW	(AB)
M12	29-4	1120	12194	Tue	289 289 289 1 8401 59 8401 59 14561 89383 95977 ... 80573 83732 39036 000 000	CW	(AB)
M12	29-4	1140	13407	Tue	289 289 289 1 8401 59 8401 59 14561 89383 95977 ... 80573 83732 39036 000 000	CW	(AB)
M12	30-4	1900	13564	Wed	511 511 511 1 3360 108 3360 108 69989 55282 95898 ... 10127 68483 95285 000 000	CW	(AB)
M12	30-4	1900	12162	Wed	546 546 546 1 8877 59 8877 59 39475 77170 29264 ... 51918 95601 02885 000 000	CW	(AB/PY)
M12	30-4	1920	11566	Wed	546 546 546 1 8877 59 8877 59 39475 77170 29264 ... 51918 95601 02885 000 000	CW	(AB)
M12	30-4	1920	12164	Wed	511 511 511 1 3360 108 3360 108 69989 55282 95898 ... 10127 68483 95285 000 000	CW	(AB)
M12	30-4	1940	10711	Wed	546 546 546 1 8877 59 8877 59 39475 77170 29264 ... 51918 95601 02885 000 000	CW	(AB)
M12	30-4	1940	11164	Wed	511 511 511 1 3360 108 3360 108 69989 55282 95898 ... 10127 68483 95285 000 000	CW	(AB)

M12	30-4	2310	14723	Wed	792 792 792 1 3968 151 3968 151 71484 26620 98422 ... 54381 67509 91024 000 000	CW	(RL)
M12	30-4	2330	13923	Wed	792 792 792 1 3968 151 3968 151 71484 26620 98422 ... 54381 67509 91024 000 000	CW	(RL)
M12	30-4	2350	12223	Wed	792 792 792 1 3968 151 3968 151 71484 26620 98422 ... 54381 67509 91024 000 000	CW	(RL)
M14	1-4	0500	12211	Tue	952 701 701 57 57 = = 57145 70055 71000 ... 40877 83853 86812 = = 701 701 57 57 00000	CW	(AB-J)
M14	1-4	0520	10243	Tue	952 701 701 57 57 = = 57145 70055 71000 ... 40877 83853 86812 = = 701 701 57 57 00000	CW	(AB-J)
M14	2-4	0500	12211	Wed	952 160 160 25 25 = = 01462 41814 92257 ... 08986 63313 10428 = = 160 160 25 25 952 843 843 27 27 = = 78981 92394 11427 ... 23903 52498 20095 = = 843 843 27 27 00000	CW	(AB-J)
M14	2-4	0500	12211	Wed	952 843 843 27 27 = = 78981 92394 11427 ... 23903 52498 20095 = = 843 843 27 27 952 160 160 25 25 = = 01462 41814 92257 ... 08986 63313 10428 = = 160 160 25 25 00000	CW	(AB-J)
M14	2-4	0520	10243	Wed	952 160 160 25 25 = = 01462 41814 92257 ... 08986 63313 10428 = = 160 160 25 25 952 843 843 27 27 = = 78981 92394 11427 ... 23903 52498 20095 = = 843 843 27 27 00000	CW	(AB-J)
M14	2-4	0520	10243	Wed	952 843 843 27 27 = = 78981 92394 11427 ... 23903 52498 20095 = = 843 843 27 27 952 160 160 25 25 = = 01462 41814 92257 ... 08986 63313 10428 = = 160 160 25 25 00000	CW	(AB-J)
M14	4-4	0500	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	4-4	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	7-4	0500	12211	Mon	952 437 437 58 58 = = 19786 92477 56526 ... 18545 14331 78901 = = 437 437 58 58 00000	CW	(AB-J)
M14	7-4	0520	10243	Mon	No transmission	CW	(AB-J)
M14	8-4	0500	12211	Tue	952 437 437 58 58 = = 19786 92477 56526 ... 18545 14331 78901 = = 437 437 58 58 00000	CW	(AB-J)
M14	8-4	0520	10243	Tue	952 437 437 58 58 = = 19786 92477 56526 ... 18545 14331 78901 = = 437 437 58 58 00000	CW	(AB-J)
M14	9-4	0500	12211	Wed	952 680 680 25 25 = = 39716 64992 71785 ... 09876 25329 32728 = = 680 680 25 25 952 714 714 32 32 = = 96803 68803 97513 ... 60767 95813 57214 = = 714 714 32 32 00000	CW	(AB-J)
M14	9-4	0524	10243	Wed	952 680 680 25 25 = = 39716 64992 71785 ... 09876 25329 32728 = = 680 680 25 25 952 714 714 32 32 = = 96803 68803 97513 ... 60767 95813 57214 = = 714 714 32 32 00000	CW	(AB-J)
M14	10-4	0500	12211	Thu	952 680 680 25 25 = = 39716 64992 71785 ... 09876 25329 32728 = = 680 680 25 25 952 714 714 32 32 = = 96803 68803 97513 ... 60767 95813 57214 = = 714 714 32 32 00000	CW	(AB-J)
M14	10-4	0524	10243	Thu	952 680 680 25 25 = = 39716 64992 71785 ... 09876 25329 32728 = = 680 680 25 25 952 714 714 32 32 = = 96803 68803 97513 ... 60767 95813 57214 = = 714 714 32 32 00000	CW	(AB-J)
M14	10-4	0930	17458	Thu	617 617 617 00000	CW	(AB/HFD)
M14	11-4	0500	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	11-4	0500	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	14-4	0500	12211	Mon	952 803 803 55 55 = = 16640 08033 64601 ... 11168 11568 17890 = = 803 803 55 55 00000	CW	(AB-J)
M14	14-4	0520	10243	Mon	952 803 803 55 55 = = 16640 08033 64601 ... 11168 11568 17890 = = 803 803 55 55 00000	CW	(AB-RUS)
M14	15-4	0500	12211	Tue	952 803 803 55 55 = = 16640 08033 64601 ... 11168 11568 17890 = = 803 803 55 55 00000	CW	(AB-J)
M14	15-4	0520	10243	Tue	952 803 803 55 55 = = 16640 08033 64601 ... 11168 11568 17890 = = 803 803 55 55 00000	CW	(AB-J)

M14	16-4	0500	12211	Wed	952 164 164 27 27 = = 82883 70814 96882 ... 59902 75539 76668 = = 164 164 27 27 952 730 730 24 24 = = 25748 69248 58714 ... 83295 13015 79888 73251 98044 51969 96702 = = 370 370 24 24 00000	CW	(AB-KOR)
M14	16-4	0524	10243	Wed	952 164 164 27 27 = = 82883 70814 96882 ... 59902 75539 76668 = = 164 164 27 27 952 730 730 24 24 = = 25748 69248 58714 ... 83295 13015 79888 73251 98044 51969 96702 = = 370 370 24 24 00000	CW	(AB-J)
M14	17-4	0502	12211	Thu	952 164 164 27 27 = = 82883 70814 96882 ... 59902 75539 76668 = = 164 164 27 27 952 730 730 24 24 = = 25748 69248 58714 ... 83295 13015 79888 73251 98044 51969 96702 = = 370 370 24 24 00000	CW	(AB-J)
M14	17-4	0524	10243	Thu	952 164 164 27 27 = = 82883 70814 96882 ... 59902 75539 76668 = = 164 164 27 27 952 730 730 24 24 = = 25748 69248 58714 ... 83295 13015 79888 73251 98044 51969 96702 = = 370 370 24 24 00000	CW	(AB-J)
M14	18-4	0500	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	18-4	0501	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	18-4	0830	9463	Fri	801 (R20m35s) 294 294 56 56 = = 47100 28251 56530 ... 21375 97658 09091 = = 294 294 56 56 00000	CW	(PY)
M14	21-4	0500	12211	Mon	952 684 684 51 51 = = 79488 99061 36174 ... 48377 43282 89361 = = 684 684 51 51 00000	CW	(AB-J)
M14	21-4	0520	10243	Mon	952 684 684 51 51 = = 79488 99061 36174 ... 48377 43282 89361 = = 684 684 51 51 00000	CW	(AB-J)
M14	22-4	0500	12211	Tue	952 684 684 51 51 = = 79488 99061 36174 ... 48377 43282 89361 = = 684 684 51 51 00000	CW	(AB-J)
M14	22-4	0520	10243	Tue	952 684 684 51 51 = = 79488 99061 36174 ... 48377 43282 89361 = = 684 684 51 51 00000	CW	(AB-J)
M14	23-4	0500	12211	Wed	952 731 731 28 28 = = 41885 99323 66827 ... 24603 11021 69179 = = 731 731 28 28 952 804 804 26 26 = = 33815 80593 91330 ... 30762 06031 20726 = = 804 804 26 26 00000	CW	(AB-J)
M14	23-4	0524	10243	Wed	952 731 731 28 28 = = 41885 99323 66827 ... 24603 11021 69179 = = 731 731 28 28 952 804 804 26 26 = = 33815 80593 91330 ... 30762 06031 20726 = = 804 804 26 26 00000	CW	(AB-J)
M14	24-4	0502	12211	Thu	952 731 731 28 28 = = 41885 99323 66827 ... 24603 11021 69179 = = 731 731 28 28 952 804 804 26 26 off	CW	(AB-J)
M14	24-4	0524	10243	Thu	952 731 731 28 28 = = 41885 99323 66827 ... 24603 11021 69179 = = 731 731 28 28 952 804 804 26 26 = = 33815 80593 91330 ... 30762 06031 20726 = = 804 804 26 26 (no clo- sing nulls)	CW	(AB-J)
M14	25-4	0500	10243	Fri	952 952 952 00000	CW	(AB-J)
M14	25-4	0501	12211	Fri	952 952 952 00000	CW	(AB-J)
M14	25-4	0930	17458	Fri	617 617 617 00000	CW	(AB)
M14	28-4	0501	12211	Mon	952 167 167 55 55 = = 27945 01793 06127 ... 72058 68246 05821 = = 167 167 55 55 (no closing nulls)	CW	(AB-J)
M14	28-4	0520	10243	Mon	952 167 167 55 55 = = 27945 01793 06127 ... 72058 68246 05821 = = 167 167 55 55 (no closing nulls)	CW	(AB-J)
M14	29-4	0504	12211	Tue	952 167 167 55 55 = = 27945 01793 06127 ... 72058 68246 05821 = = 167 167 55 55 00000	CW	(AB-J)

M14	29-4	0520	10243	Tue	952 167 167 55 55 = = 27945 01793 06127 ... 72058 68246 05821 = = 167 167 55 55 00000	CW	(AB-J)
M14	30-4	0500	12211	Wed	952 952 952 000	CW	(AB-J)
M14	30-4	0524	10243	Wed	952 952 952 000	CW	(AB-J)
M23	1-4	0729	10222	Tue	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 0755z)	CW	(AB)
M23	1-4	1528	10755	Tue	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1554z)	CW	(AB)
M23	2-4	0728	10222	Wed	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 0754z)	CW	(AB-F)
M23	2-4	1530	10755	Wed	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1555z)	CW	(AB)
M23	3-4	1502	10755	Thu	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1529z)	CW	(AB)
M23	4-4	1459	10755	Fri	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1525z)	CW	(AB)
M23	5-4	1501	10755	Sat	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1526z)	CW	(AB)
M23	6-4	1501	10755	Sun	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. S55500 SALUT LA COMPAGNIE etc. (ended at 1527z)	CW	(AB)
M23	7-4	1800	6937	Mon	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	8-4	1800	6937	Tue	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	9-4	1800	6937	Wed	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	10-4	1430	10755	Thu	15081 86915 08176 91508 17691 ... 81769 P (ends at 1455z)	CW	(AB)
M23	10-4	1800	6937	Thu	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	11-4	1430	10755	Fri	15081 86915 08176 91508 17691 ... 81769 P (ends at 1455z)	CW	(AB)
M23	11-4	1800	6937	Fri	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	12-4	1430	10755	Sat	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	12-4	1620	7668	Sat	i.p. 55555 05050 05500 ...	CW	(Pille)
M23	12-4	1800	6937	Sat	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	13-4	0600	10222	Sun	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0627z)	CW	(AB)
M23	13-4	1430	10755	Sun	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	13-4	1600	7668	Sun	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	13-4	1800	6937	Sun	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)

M23	14-4	0600	10222	Mon	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0631z)	CW	(AB)
M23	14-4	1430	10755	Mon	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB/WN)
M23	14-4	1600	7668	Mon	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB/Pille)
M23	14-4	1800	6937	Mon	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	15-4	0600	10222	Tue	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	15-4	1430	10755	Tue	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	15-4	1600	7668	Tue	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	15-4	1800	6937	Tue	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	16-4	0600	10222	Wed	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	16-4	1430	10755	Wed	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	16-4	1600	7668	Wed	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	16-4	1800	6937	Wed	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	17-4	0600	10222	Thu	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	17-4	1430	10755	Thu	15081 76915 08176 91508 17691 50817 69150 81769 (repeated)	CW	(AB)
M23	17-4	1600	7668	Thu	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	17-4	1800	6937	Thu	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	18-4	0600	10222	Fri	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	18-4	1430	10755	Fri	15081 76915 08176 91508 17691 50817 69150 81769 (repeated)	CW	(AB)
M23	18-4	1600	7668	Fri	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	18-4	1800	6937	Fri	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	19-4	0600	10222	Sat	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	19-4	1430	10755	Sat	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	19-4	1600	7668	Sat	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	19-4	1800	6937	Sat	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)

M23	20-4	0600	10222	Sun	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	20-4	1430	10755	Sun	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	20-4	1600	7668	Sun	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	20-4	1800	6937	Sun	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	21-4	0559	10222	Mon	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	21-4	1429	10755	Mon	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB/WN)
M23	21-4	1600	7668	Mon	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	21-4	1800	6937	Mon	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	22-4	0559	10222	Tue	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0624z)	CW	(AB)
M23	22-4	1559	7668	Tue	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	22-4	1800	6937	Tue	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	23-4	0600	10222	Wed	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	23-4	1430	10755	Wed	15081 76915 08176 91508 17691 50817 69150 81769 (repeated)	CW	(AB)
M23	23-4	1600	7668	Wed	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	23-4	1800	6937	Wed	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	24-4	0600	10222	Thu	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	24-4	1429	10755	Thu	15081 76915 08176 91508 17691 50817 69150 81769 (repeated)	CW	(AB)
M23	24-4	1559	7668	Thu	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	24-4	1800	6937	Thu	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	24-4	1823	6937	Thu	i.p. LO48636017 LA1511114 (repeated) 76915081 (repeated)	CW	(SW2)
M23	25-4	0559	10222	Fri	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	25-4	1429	10755	Fri	15081 76915 08176 91508 17691 50817 69150 81769 (repeated)	CW	(AB)
M23	25-4	1559	7668	Fri	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	25-4	1800	6937	Fri	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)

M23	26-4	0559	10222	Sat	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	26-4	1430	10755	Sat	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	26-4	1559	7668	Sat	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	26-4	1800	6937	Sat	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	27-4	0559	10222	Sun	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	27-4	1430	10755	Sun	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	27-4	1600	7668	Sun	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	27-4	1800	6937	Sun	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	28-4	0559	10222	Mon	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc. (ended at 0625z)	CW	(AB)
M23	28-4	1429	10755	Mon	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB)
M23	28-4	1600	7668	Mon	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	28-4	1800	6937	Mon	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	29-4	0559	10222	Tue	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc.	CW	(AB)
M23	29-4	1429	10755	Tue	15081 76915 08176 91508 17691 50817 69150 81769 (repeated) P	CW	(AB/WN)
M23	29-4	1559	7668	Tue	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc.	CW	(AB)
M23	29-4	1800	6937	Tue	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M23	30-4	0600	10222	Wed	55555 05050 55005 05555 00000 etc. TAG JAZZY KAYAK JUNKY KHOBZ FAXEZ ZOGUE AMINE TRIOL etc.	CW	(AB)
M23	30-4	1600	7668	Wed	55555 05050 55005 05555 00000 55550 00005 05500 05555 55005 00550 50505 etc. (ended at 1624z)	CW	(AB)
M23	30-4	1800	6937	Wed	LA METEO DU JOUR EST BON ET LES OISEAUX CHANTENT etc. LO48636017 LA1511114 (repeated) 15081769 (repeated). Ended at 1825z	CW	(AB)
M42	1-4	0820	13422	Tue	Russian diplo	MFSK-66	(AB)
M42	3-4	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana	FSK CW	(AB)
M42	3-4	1415	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1417	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1418	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1421	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1422	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1424	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1425	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	3-4	1428	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)

M42	3-4	1434	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	3-4	1533	15883	Thu	Russian diplo	MFSK-66	(AB)
M42	8-4	0744	9122	Tue	Russian intel.	Serdolik v2	(RO)
M42	8-4	0753	13420	Tue	Russian diplo	Serdolik v2	(AB/RO)
M42	8-4	0809	11071	Tue	Russian intel.	Serdolik v2	(RO)
M42	8-4	1018	14970	Tue	Russian intel.	Serdolik v2	(RO)
M42	8-4	1022	20815	Tue	Russian intel.	Serdolik v2	(RO)
M42	10-4	0805	16062	Thu	Russian diplo	Serdolik v2	(AB/T101)
M42	10-4	0827	18220	Thu	Russian diplo	Serdolik v2	(AB)
M42	10-4	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Changed freq to 20115 kHz at 1311z	FSK CW + FSK 100/500	(AB)
M42	10-4	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Changed freq to 18397 kHz at 1318z. Header: 11100 70103 46379 10047 04003	FSK CW + FSK 75/500	(AB-USA)
M42	10-4	1311	20115	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Header: 11100 70103 59487 10047 04009	FSK CW + FSK 100/500	(AB-KWT)
M42	10-4	1318	18397	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Header: 11100 70103 46379 10047 04003	FSK CW + FSK 75/500	(AB-USA)
M42	11-4	0635	11158	Fri	Russian diplo	Serdolik v2	(AB)
M42	11-4	0654	11158	Fri	Russian diplo	Serdolik v2	(AB)
M42	17-4	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Switched to 20467 or 20115 kHz at 1313z. Both not heard.	FSK CW + FSK 100/500	(AB)
M42	17-4	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Header: 11177 70103 85173 17050 04003	FSK CW + FSK 75/500	(AB-USA)
M42	18-4	1042	16302	Fri	Russian diplo	Serdolik v2	(AB)
M42	21-4	0639	12120	Mon	Russian diplo	MFSK-66	(AB)
M42	21-4	0759	14878	Mon	Russian diplo	MFSK-66	(AB)
M42	22-4	0825	15690	Tue	Russian diplo	Serdolik v2	(AB)
M42	23-4	1305	19305	Wed	Russian diplo	OFDM-112	(AB)
M42	24-4	0639	13848	Thu	Russian diplo	MFSK-66	(AB)
M42	24-4	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Header: 11100 70103 74523 24055 04009	FSK CW + FSK 100/500	(AB)
M42	25-4	0817	14501	Fri	Russian diplo	MFSK-66	(AB)
M42	28-4	0900	11071	Mon	Russian diplo	Serdolik v2	(AB)
M42	28-4	0918	19273	Mon	Russian diplo	Serdolik v2	(AB/Moon)
M42	28-4	0935	19273	Mon	Russian diplo	Serdolik v2	(AB)
M42	29-4	0812	11072	Tue	Russian diplo	Serdolik v2	(AB)
M42b	1-4	0807	19101	Tue	F5KA F5KA. Header: 244 100 1 0755 8231=	CW + FSK 50/500	(AB)
M42b	1-4	1229	12093	Tue	NT9P NT9P NT9P DE K4MT K4MT K. Header: 587 100 1 1215 4950 =	CW + FSK 50/500	(AB)
M42b	2-4	0802	19101	Wed	S5W8 S5W8. Header: 245 100 4 0800 2841=	CW + FSK 50/500	(AB)
M42b	3-4	0801	19099	Thu	5NT8. Header: 246 100 3 0755 9247=	CW + FSK 50/500	(AB)
M42b	3-4	1229	12093	Thu	NT9P NT9P NT9P DE K4MT K4MT K. Header: 105 100 3 1215 5285 =	CW + FSK 50/500	(AB)

M42b	3-4	1250	18177	Thu	KFUJ ROBZLQPKFUJ RS GMOUTYPJCK-ZOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	4-4	0800	19101	Fri	K1M1. Message unreadable	CW + FSK 50/500	(AB)
M42b	4-4	1229	12093	Fri	NT9P NT9P NT9P DE K4MT K4MT K. Header: 617 100 4 1215 4987 =	CW + FSK 50/500	(AB)
M42b	10-4	0709	10550	Thu	KFUJ RTHZLQPCAUJ RTHZLQPHKFUJ YTHZLQ O OQOOOOOOZ O OQOOOOOOZ O OQOOOOOOOOOOOOOOOOOOOO ... (repeated)	FSK 50/500	(AB)
M42b	28-4	0524	12210	Mon	350751= VVV VVV VVV RR46 RR46 RR46 DE RWB5 RWB5 GD 350751 CFM 350751 RR46 DE RWB5 OK	FSK 50/500	(AB)
M42b	28-4	0800	14780	Mon	Idling till 0854z	FSK 50/500	(AB)
M42b	28-4	0854	14780	Mon	121743 VVW RHK6 RHK6 RHK6 DE 4282 4282 121743	FSK 50/500	(AB)
M42b	28-4	0904	14780	Mon	121743(repeated) VVW RHK6 RHK6 RHK6 DE 4282 4282 121743 (repeated) RYRYRYRYRY-RYRYRYRYRYRYRYRYRYRYRYRYRYRY	FSK 50/500	(AB)
M42b	28-4	1120	18359	Mon	KFUJ RTHZRLQPCAUJ RTHZLQPF ISKFUDQPTHZT OO (repeated)	FSK 50/500	(AB)
M42b	28-4	1140	15876	Mon	KFUJ ROHZLQPCAUJ RTHZLQPCAUJ RCFULQPTHZ OO (repeated)	FSK 50/500	(AB)
M89	2-4	0002	8090	Wed	i.p. EEE NR 1094/EX 0803 BT 3RGJ/8 TWJ7 AR QSY 37 QSY 37	CW	(JPL-HK)
M89	2-4	0004	8199	Wed	i.p. EEE NR 1085/EX 0805 BT 4WI9/7FD2 AR QSY 38 QSY 38	CW	(JPL-HK)
M89	2-4	0011	8453	Wed	i.p. EEE NR 1097/EX 0812 BT 2RL7/5TSJ AR SK SK	CW	(JPL-HK)
M89	4-4	1456	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	4-4	1456	5742	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	4-4	1515	5004	Fri	i.p. HR SVC RACW91/2308/1316 QSL?	CW	(JPL-HK)
M89	4-4	1520	4860	Fri	V Q2M (x3) DE NYZ (x2)	CW	(JPL-HK)
M89	4-4	1520	6840	Fri	V Q2M (x3) DE NYZ (x2)	CW	(JPL-HK)
M89	4-4	1730	11348	Fri	FE NR 133/EX 0138 RMKS 8573 TO 8639 = ABC 1/DEF 2 + K	CW	(Cic)
M89	7-4	1648	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	7-4	1648	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	8-4	1045	8919	Tue	i.p. NR 218 HR 7G GA 7G NR 292 CK 25 8 0408 1845 RMKS 4889 TO 6468 = 4AND 3DA4 ...	CW	(JPL-KOR)
M89	8-4	1102	8374	Tue	i.p. EEE NR 4086/EX 1903 RMKS CQ = J2F/PSJ AR QSL 194 QSL 1904 HR MSG MSG NR 4887 CK 69 54 0408 1900 RMKS CQ = 650A ND76 ...	CW	(JPL-KOR)
M89	12-4	1820	4860	Sat	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	12-4	1820	6840	Sat	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	12-4	1828	5223	Sat	i.p. MSG NR 245 CK 139 82 0403 0335 RMKS 0780 TO 0783 = 35NT 5UN5 7344 ...	CW	(JPL-J)
M89	12-4	1850	4357	Sat	V 3JWV (x3) DE QSVP (x2) M89 (Remote tuner Japan) JPL SAT	CW	(JPL-J)
M89	12-4	1850	5742	Sat	V 3JWV (x3) DE QSVP (x2) M89 (Remote tuner Japan) JPL SAT	CW	(JPL-J)
M89	13-4	1120	4860	Sun	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	13-4	1120	6840	Sun	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	13-4	1448	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	13-4	1448	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	14-4	1127	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	14-4	1127	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)

M89	14-4	1139	9049	Mon	7G NR445 CK 91 73 0414 1930 RMKS 7755 TO 6926 K. 653N 6473 U7BA ...	CW	(JPL-J)
M89	17-4	1356	4435	Thu	i.p. NR 2012 CK 71 66 05 172100 RMKS 8.82 TO 8672 =	CW	(JPL-J)
M89	17-4	1400	4357	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	17-4	1400	5742	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	17-4	1402	7188	Thu	i.p. NR .062 CK 51 11 0417 2200 RMKS 3408 TO 1551 =	CW	(JPL-J)
M89	17-4	1404	8031	Thu	i.p. NR X65. CK .5 44 0417 1203 RMKS 666. TO 5611 =	CW	(JPL-J)
M89	17-4	1620	4860	Thu	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	17-4	1620	6840	Thu	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	17-4	1635	5888	Thu	i.p. NR 6376/EX 0027 = JK3/LM4 AR (x2)	CW	(JPL-J)
M89	18-4	1836	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	18-4	1836	5742	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	19-4	1412	4357	Sat	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	19-4	1420	5672	Sat	V 3JWV (x3) DE QSVP (x2) NR... CK ... 09 2220 RMKS 5222 TO 5995 TO 5561 =	CW	(JPL-J)
M89	20-4	1520	4860	Sun	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	20-4	1520	6840	Sun	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	20-4	1527	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	20-4	1527	5672	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	20-4	1530	4122	Sun	V C5ER (x3) DE 9UTL (x2)	CW	(JPL-J)
M89	21-4	1545	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	21-4	1545	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	21-4	1600	6817	Mon	V C5ER (x3) DE 9UTL (x2)	CW	(JPL-RUS)
M89	21-4	1726	4122	Mon	V C5ER (x3) DE 9UTL (x2)	CW	(JPL-RUS)
M89	22-4	1050	4125	Tue	MSG NR 0827/CCK CK 90 04 04 221850 RMKS 3456 TO 3518 K	CW	(JPL-J)
M89	22-4	1109	6817	Tue	V C5ER (x3) DE 9UTL (x2)	CW	(JPL-J)
M89	22-4	1120	4860	Tue	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	22-4	1120	6840	Tue	V Q2M (x3) DE NYZ (x2)	CW	(JPL-J)
M89	22-4	1142	8130	Tue	MSG NR 336 CK 95 66 0422 1942 RMKS 3224 TO 3266 =	CW	(JPL-J)
M89	24-4	1118	6817	Thu	V C5ER (x3) DE 9UTL (x2)	CW	(JPL-KOR)
M89	24-4	1120	4860	Thu	V Q2M (x3) DE NYZ (x2)	CW	(JPL-KOR)
M89	24-4	1120	6840	Thu	V Q2M (x3) DE NYZ (x2)	CW	(JPL-KOR)
M89	24-4	1125	4357	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-KOR)
M89	25-4	1120	4860	Fri	V Q2M (x3) DE NYZ (x2)	CW	(JPL-TWN)
M89	25-4	1120	6840	Fri	V Q2M (x3) DE NYZ (x2)	CW	(JPL-TWN)
M89	25-4	1552	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-J)
M89	27-4	1743	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL-RUS)
M89	29-4	1120	4860	Tue	V Q2M (x3) DE NYZ (x2)	CW	(JPL-TWN)
M89	29-4	1120	6840	Tue	V Q2M (x3) DE NYZ (x2)	CW	(JPL-TWN)
M95	1-4	1714	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	1-4	1714	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	4-4	1458	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	4-4	1458	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	7-4	1632	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)

M95	7-4	1632	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	8-4	1442	16719	Tue	NR27 CCK CK14T 73 T4T8 2 T18 RMKS ...	CW	(Pille)
M95	12-4	1906	3903	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Novosibirsk) JPL SAT	CW	(JPL-J)
M95	12-4	1906	6886	Sat	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Novosibirsk) JPL SAT	CW	(JPL-J)
M95	13-4	1528	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	13-4	1528	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	17-4	1347	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	17-4	1347	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	18-4	1158	6557	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	18-4	1158	11475	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	18-4	1842	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	18-4	1842	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	19-4	1149	4156	Sat	Message //9042 kHz	CW	(JPL-J)
M95	19-4	1149	9042	Sat	Message //4156 kHz	CW	(JPL-J)
M95	19-4	1407	11475	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-J)
M95	20-4	1519	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	20-4	1519	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	21-4	1609	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	21-4	1609	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	22-4	1557	7696	Tue	NR 176/CCK CK 81 13 0422 2334 RMKS 3553 TO 4795 =	CW	(JPL-J)
M95	22-4	1600	6052	Tue	NR .23/CCK CK 18 6 30423 0000 RMKS CQ =	CW	(JPL-J)
M95	24-4	1055	6557	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	24-4	1055	11475	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	25-4	1138	4542	Fri	V BYAR DE TUS30 NR 0358 CK 249 35 04 25 1035 =	CW	(JPL-HK)
M95	25-4	1147	4156	Fri	NR 50 CK 153 35 04 25 1502 =	CW	(JPL-HK)
M95	25-4	1549	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-HK)
M95	25-4	1849	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-HK)
M95	27-4	1738	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	27-4	1738	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL-RUS)
M95	28-4	1138	4542	Mon	V BNGC DE XS30 HR MSG GA PSE CY NR 0363 CK 318 35 04 28 1620 =	CW	(JPL-HK)
M95	28-4	1151	4156	Mon	i.p. NR 26 CK 45 35 0428 1519 =	CW	(JPL-TWN)
M95	29-4	1138	4542	Tue	V BNGC DE TUS30 NR 0366 CK 015 35 04 29 1527 = (Sometimes the call is sent as TUS30 or XS30)	CW	(JPL-HK)
M95	29-4	1151	4156	Tue	i.p. NR 18 CK 35 35 04 29 1510 = NR 58 CK 216 35 0429 1520 =	CW	(JPL-TWN)
NB	4-4	1830	6085	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	4-4	1830	7230	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	4-4	1830	7550	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	7-4	1650	6085	Mon	Unid station a.k.a. New Buzzer	USB	(Pille)
NB	7-4	1650	7230	Mon	Unid station a.k.a. New Buzzer	USB	(Pille)
NB	7-4	1650	7550	Mon	Unid station a.k.a. New Buzzer	USB	(Pille)
NB	8-4	1644	6085	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
NB	8-4	1644	7230	Tue	Unid station a.k.a. New Buzzer	USB	(AB)

NB	8-4	1644	7550	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
NB	9-4	1722	5107	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	9-4	1722	8160	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	9-4	1722	9695	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-4	2123	5107	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-4	2123	8160	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	11-4	2123	9695	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	18-4	1921	5107	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	18-4	1921	8160	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	18-4	1921	9695	Fri	Unid station a.k.a. New Buzzer	USB	(AB)
NB	20-4	1956	5107	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	20-4	1956	8160	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	20-4	1956	9695	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	22-4	1713	5107	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
NB	22-4	1713	8160	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
NB	22-4	1713	9695	Tue	Unid station a.k.a. New Buzzer	USB	(AB)
NB	23-4	2027	5107	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	23-4	2027	8160	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	23-4	2027	9695	Wed	Unid station a.k.a. New Buzzer	USB	(AB)
NB	28-4	2028	5107	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
NB	28-4	2028	8160	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
NB	28-4	2028	9695	Mon	Unid station a.k.a. New Buzzer	USB	(AB)
P03	1-4	1100	9371	Tue	Polish intel.	PSK	(AB)
P03	1-4	1105	9371	Tue	Polish intel.	PSK	(AB)
P03	1-4	1725	13873	Tue	Polish intel.	PSK	(AB)
P03	1-4	1730	13873	Tue	Polish intel.	PSK	(AB)
P03	2-4	0950	12153	Wed	Polish intel.	PSK	(AB)
P03	2-4	0955	12153	Wed	Polish intel.	PSK	(AB)
P03	2-4	1100	9371	Wed	Polish intel.	PSK	(AB)
P03	2-4	1105	9371	Wed	Polish intel.	PSK	(AB)
P03	2-4	1310	10213	Wed	Polish intel.	PSK	(AB)
P03	2-4	1315	10213	Wed	Polish intel.	PSK	(AB)
P03	4-4	0530	5176	Fri	Polish intel.	PSK	(AB)
P03	4-4	0535	5176	Fri	Polish intel.	PSK	(AB)
P03	4-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	4-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	4-4	1515	18405	Fri	Polish intel.	PSK	(AB)
P03	4-4	1520	18405	Fri	Polish intel.	PSK	(AB)
P03	5-4	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	5-4	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	5-4	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	5-4	1250	5176	Sat	Polish intel.	PSK	(AB)

P03	5-4	1310	10213	Sat	Polish intel.	PSK	(AB)
P03	5-4	1315	10213	Sat	Polish intel.	PSK	(AB)
P03	6-4	0530	5176	Sun	Polish intel.	PSK	(AB)
P03	6-4	0535	5176	Sun	Polish intel.	PSK	(AB)
P03	6-4	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	6-4	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	6-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	6-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	6-4	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	6-4	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	6-4	1515	18405	Sun	Polish intel.	PSK	(AB)
P03	6-4	1520	18405	Sun	Polish intel.	PSK	(AB)
P03	6-4	1725	13873	Sun	Polish intel.	PSK	(AB)
P03	6-4	1730	13873	Sun	Polish intel.	PSK	(AB)
P03	6-4	1950	7749	Sun	Polish intel.	PSK	(AB)
P03	6-4	1955	7749	Sun	Polish intel.	PSK	(AB)
P03	7-4	0950	12153	Mon	Polish intel.	PSK	(AB)
P03	7-4	0955	12153	Mon	Polish intel.	PSK	(AB)
P03	8-4	1100	9371	Tue	Polish intel.	PSK	(AB)
P03	8-4	1105	9371	Tue	Polish intel.	PSK	(AB)
P03	8-4	1725	13873	Tue	Polish intel.	PSK	(AB)
P03	8-4	1730	13873	Tue	Polish intel.	PSK	(AB)
P03	9-4	0950	12153	Wed	Polish intel.	PSK	(AB)
P03	9-4	0955	12153	Wed	Polish intel.	PSK	(AB)
P03	9-4	1100	9371	Wed	Polish intel.	PSK	(AB)
P03	9-4	1105	9371	Wed	Polish intel.	PSK	(AB)
P03	9-4	1310	10213	Wed	Polish intel.	PSK	(AB)
P03	9-4	1315	10213	Wed	Polish intel.	PSK	(AB)
P03	10-4	1950	7749	Thu	Polish intel.	PSK	(AB)
P03	10-4	1955	7749	Thu	Polish intel.	PSK	(AB)
P03	11-4	0530	5176	Fri	Polish intel.	PSK	(AB)
P03	11-4	0535	5176	Fri	Polish intel.	PSK	(AB)
P03	11-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	11-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	11-4	1515	18405	Fri	Polish intel.	PSK	(AB)
P03	11-4	1520	18405	Fri	Polish intel.	PSK	(AB)
P03	12-4	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	12-4	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	12-4	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	12-4	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	12-4	1310	10213	Sat	Polish intel.	PSK	(AB)
P03	12-4	1315	10213	Sat	Polish intel.	PSK	(AB)

P03	13-4	0530	5176	Sun	Polish intel.	PSK	(AB)
P03	13-4	0535	5176	Sun	Polish intel.	PSK	(AB)
P03	13-4	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	13-4	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	13-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	13-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	13-4	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	13-4	1225	20167	Sun	Polish intel.	PSK	(AB)
P03	13-4	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	13-4	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	13-4	1515	18405	Sun	Polish intel.	PSK	(AB)
P03	13-4	1520	18405	Sun	Polish intel.	PSK	(AB)
P03	13-4	1725	13873	Sun	Polish intel.	PSK	(AB)
P03	13-4	1730	13873	Sun	Polish intel.	PSK	(AB)
P03	13-4	1950	7749	Sun	Polish intel.	PSK	(AB)
P03	13-4	1955	7749	Sun	Polish intel.	PSK	(AB)
P03	14-4	0950	12153	Mon	Polish intel.	PSK	(AB)
P03	14-4	0955	12153	Mon	Polish intel.	PSK	(AB)
P03	14-4	1220	20167	Mon	Polish intel.	PSK	(AB)
P03	14-4	1225	20167	Mon	Polish intel.	PSK	(AB)
P03	15-4	1100	9371	Tue	Polish intel.	PSK	(AB)
P03	15-4	1105	9371	Tue	Polish intel.	PSK	(AB)
P03	15-4	1725	13873	Tue	Polish intel.	PSK	(AB)
P03	15-4	1730	13873	Tue	Polish intel.	PSK	(AB)
P03	16-4	0950	12153	Wed	Polish intel.	PSK	(AB)
P03	16-4	0955	12153	Wed	Polish intel.	PSK	(AB)
P03	16-4	1100	9371	Wed	Polish intel.	PSK	(AB)
P03	16-4	1105	9371	Wed	Polish intel.	PSK	(AB)
P03	16-4	1310	10213	Wed	Polish intel.	PSK	(AB)
P03	16-4	1315	10213	Wed	Polish intel.	PSK	(AB)
P03	17-4	1950	7749	Thu	Polish intel.	PSK	(AB)
P03	17-4	1955	7749	Thu	Polish intel.	PSK	(AB)
P03	18-4	0530	5176	Fri	Polish intel.	PSK	(AB)
P03	18-4	0535	5176	Fri	Polish intel.	PSK	(AB)
P03	18-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	18-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	18-4	1515	18405	Fri	Polish intel.	PSK	(AB)
P03	18-4	1520	18405	Fri	Polish intel.	PSK	(AB)
P03	19-4	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	19-4	1025	6849	Sat	Polish intel.	PSK	(AB)
P03	19-4	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	19-4	1250	5176	Sat	Polish intel.	PSK	(AB)

P03	19-4	1310	10213	Sat	Polish intel.	PSK	(AB)
P03	19-4	1315	10213	Sat	Polish intel.	PSK	(AB)
P03	20-4	0530	5176	Sun	Polish intel.	PSK	(AB)
P03	20-4	0535	5176	Sun	Polish intel.	PSK	(AB)
P03	20-4	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	20-4	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	20-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	20-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	20-4	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	20-4	1225	20167	Sun	Polish intel.	PSK	(AB)
P03	20-4	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	20-4	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	20-4	1515	18405	Sun	Polish intel.	PSK	(AB)
P03	20-4	1520	18405	Sun	Polish intel.	PSK	(AB)
P03	20-4	1725	13873	Sun	Polish intel.	PSK	(AB)
P03	20-4	1730	13873	Sun	Polish intel.	PSK	(AB)
P03	20-4	1950	7749	Sun	Polish intel.	PSK	(AB)
P03	20-4	1955	7749	Sun	Polish intel.	PSK	(AB)
P03	21-4	0950	12153	Mon	Polish intel.	PSK	(AB)
P03	21-4	0955	12153	Mon	Polish intel.	PSK	(AB)
P03	21-4	1220	20167	Mon	Polish intel.	PSK	(AB)
P03	21-4	1225	20167	Mon	Polish intel.	PSK	(AB)
P03	22-4	1100	9371	Tue	Polish intel.	PSK	(AB)
P03	22-4	1105	9371	Tue	Polish intel.	PSK	(AB)
P03	22-4	1725	13873	Tue	Polish intel.	PSK	(AB)
P03	22-4	1730	13873	Tue	Polish intel.	PSK	(AB)
P03	23-4	0950	12153	Wed	Polish intel.	PSK	(AB)
P03	23-4	0955	12153	Wed	Polish intel.	PSK	(AB)
P03	23-4	1100	9371	Wed	Polish intel.	PSK	(AB)
P03	23-4	1105	9371	Wed	Polish intel.	PSK	(AB)
P03	23-4	1310	10213	Wed	Polish intel.	PSK	(AB)
P03	23-4	1315	10213	Wed	Polish intel.	PSK	(AB)
P03	24-4	1950	7749	Thu	Polish intel.	PSK	(AB)
P03	24-4	1955	7749	Thu	Polish intel.	PSK	(AB)
P03	25-4	0530	5176	Fri	Polish intel.	PSK	(AB)
P03	25-4	0535	5176	Fri	Polish intel.	PSK	(AB)
P03	25-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	25-4	1100	7850	Fri	Polish intel.	PSK	(AB)
P03	25-4	1515	18405	Fri	Polish intel.	PSK	(AB)
P03	25-4	1520	18405	Fri	Polish intel.	PSK	(AB)
P03	26-4	1020	6849	Sat	Polish intel.	PSK	(AB)
P03	26-4	1025	6849	Sat	Polish intel.	PSK	(AB)

P03	26-4	1245	5176	Sat	Polish intel.	PSK	(AB)
P03	26-4	1250	5176	Sat	Polish intel.	PSK	(AB)
P03	26-4	1310	10213	Sat	Polish intel.	PSK	(AB)
P03	26-4	1315	10213	Sat	Polish intel.	PSK	(AB)
P03	27-4	0530	5176	Sun	Polish intel.	PSK	(AB)
P03	27-4	0535	5176	Sun	Polish intel.	PSK	(AB)
P03	27-4	1020	6849	Sun	Polish intel.	PSK	(AB)
P03	27-4	1025	6849	Sun	Polish intel.	PSK	(AB)
P03	27-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	27-4	1100	7850	Sun	Polish intel.	PSK	(AB)
P03	27-4	1220	20167	Sun	Polish intel.	PSK	(AB)
P03	27-4	1225	20167	Sun	Polish intel.	PSK	(AB)
P03	27-4	1245	5176	Sun	Polish intel.	PSK	(AB)
P03	27-4	1250	5176	Sun	Polish intel.	PSK	(AB)
P03	27-4	1515	18405	Sun	Polish intel.	PSK	(AB)
P03	27-4	1520	18405	Sun	Polish intel.	PSK	(AB)
P03	27-4	1725	13873	Sun	Polish intel.	PSK	(AB)
P03	27-4	1730	13873	Sun	Polish intel.	PSK	(AB)
P03	27-4	1950	7749	Sun	Polish intel.	PSK	(AB)
P03	27-4	1955	7749	Sun	Polish intel.	PSK	(AB)
P03	28-4	0950	12153	Mon	Polish intel.	PSK	(AB)
P03	28-4	0955	12153	Mon	Polish intel.	PSK	(AB)
P03	28-4	1220	20167	Mon	Polish intel.	PSK	(AB)
P03	28-4	1225	20167	Mon	Polish intel.	PSK	(AB)
P03	29-4	1100	9371	Tue	Polish intel.	PSK	(AB)
P03	29-4	1105	9371	Tue	Polish intel.	PSK	(AB)
P03	29-4	1725	13873	Tue	Polish intel.	PSK	(AB)
P03	29-4	1730	13873	Tue	Polish intel.	PSK	(AB)
P03	30-4	0950	12153	Wed	Polish intel.	PSK	(AB)
P03	30-4	0955	12153	Wed	Polish intel.	PSK	(AB)
P03	30-4	1100	9371	Wed	Polish intel.	PSK	(AB)
P03	30-4	1105	9371	Wed	Polish intel.	PSK	(AB)
P03	30-4	1310	10213	Wed	Polish intel.	PSK	(AB)
P03	30-4	1315	10213	Wed	Polish intel.	PSK	(AB)
P03g	1-4	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	1-4	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-4	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-4	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	8-4	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	8-4	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-4	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-4	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)

P03g	15-4	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	15-4	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-4	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-4	1805	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	22-4	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	22-4	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-4	1800	7840	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-4	1805	7840	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	29-4	1800	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	29-4	1805	7840	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03k	1-4	1230	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-4	1235	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-4	1730	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-4	1735	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-4	0630	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-4	0635	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-4	0630	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-4	0635	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-4	1230	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-4	1235	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-4	1730	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-4	1735	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-4	0630	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-4	0635	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-4	1730	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-4	1735	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-4	0630	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-4	0635	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-4	1230	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-4	1235	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-4	1730	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-4	1735	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-4	0630	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-4	0635	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-4	1230	19515	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-4	1235	19515	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-4	0630	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-4	0635	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-4	1230	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-4	1235	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-4	1730	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	23-4	1735	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	26-4	0630	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-4	0635	9168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-4	1730	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-4	1735	7772	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-4	0630	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-4	0635	9168	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-4	1230	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-4	1235	19515	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-4	1730	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-4	1735	7772	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	1-4	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	1-4	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	3-4	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	3-4	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	3-4	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	3-4	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	7-4	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	7-4	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	8-4	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	8-4	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	10-4	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-4	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-4	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	10-4	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	14-4	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	14-4	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	15-4	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	15-4	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	16-4	1345	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	16-4	1350	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	17-4	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	17-4	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	18-4	1345	14410	Fri	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	18-4	1350	14410	Fri	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	21-4	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	21-4	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	22-4	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	22-4	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03l	23-4	1345	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	23-4	1350	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	24-4	0430	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03l	24-4	0435	10210	Thu	Polish intel.	QPSK 100Bd/464bp	(AB-POL)

P03I	24-4	1200	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	24-4	1205	9079	Thu	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	25-4	1345	14410	Fri	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	25-4	1350	14410	Fri	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	28-4	1200	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	28-4	1205	9079	Mon	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	29-4	0430	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	29-4	0435	10210	Tue	Polish intel.	QPSK 100Bd/464bp	(TM)
P03I	30-4	1345	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P03I	30-4	1350	14410	Wed	Polish intel.	QPSK 100Bd/464bp	(AB-POL)
P07	2-4	1400	10446	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-4	1410	9379	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-4	1420	9109	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-4	1430	8166	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-4	1440	7718	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-4	1450	6969	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1400	10446	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1410	9379	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1420	9109	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1430	8166	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1440	7718	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	6-4	1450	6969	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1400	10446	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1410	9379	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1420	9109	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1430	8166	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1440	7718	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-4	1450	6969	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1400	10446	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1410	9379	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1420	9109	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1430	8166	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1440	7718	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	13-4	1450	6969	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1400	10446	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1410	9379	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1420	9109	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1430	8166	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1440	7718	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-4	1450	6969	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-4	1400	10446	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-4	1410	9379	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	20-4	1420	9109	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-4	1430	8166	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-4	1440	7718	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	20-4	1450	6969	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1400	10446	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1410	9379	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1420	9109	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1430	8166	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1440	7718	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-4	1450	6969	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1400	10446	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1410	9379	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1420	9109	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1430	8166	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1440	7718	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	27-4	1450	6969	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1400	10446	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1410	9379	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1420	9109	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1430	8166	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1440	7718	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-4	1450	6969	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	6-4	0902	6516	Sun	Message	4+4 QPSK 75/1000 LSB	(Moon)
Q26	19-4	1143	4156	Sat	Message //9042 kHz	4+4 QPSK 75/1000 LSB	(JPL-J)
Q26	19-4	1143	9042	Sat	Message //4156 kHz	4+4 QPSK 75/1000 LSB	(JPL-J)
Q26	24-4	1133	4542	Thu	Message	4+4 QPSK 75/1000 LSB	(JPL-HK)
Q26	25-4	1130	4542	Fri	Message	4+4 QPSK 75/1000 LSB	(JPL-HK)
Q26	28-4	1130	4542	Mon	Message	4+4 QPSK 75/1000 LSB	(JPL-HK)
Q26	29-4	1131	4542	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL-HK)
S06	2-4	0930	12207	Wed	480 253 41 34261 53101 64983 ... 05354 75458 09625 253 41 00000	USB	(Lac/HFD)
S06	2-4	1030	11128	Wed	480 253 41 34261 53101 64983 ... 05354 75458 09625 253 41 00000	USB	(Lac/HFD)
S06	3-4	0400	11616	Thu	480 962 34 76122 32451 51371 ... 20497 73929 44262 962 34 480 731 24 80487 20055 88247 ... 92682 65489 51583 731 24 00000	USB	(Lac)
S06	3-4	0420	9322	Thu	480 962 34 76122 32451 51371 ... 20497 73929 44262 962 34 480 731 24 80487 20055 88247 ... 92682 65489 51583 731 24 00000	USB	(Lac)
S06	4-4	1900	9925	Fri	842 842 842 00000	USB	(AB/HFD)
S06	4-4	2000	7505	Fri	842 842 842 00000	USB	(AB/HFD)
S06	9-4	0930	12207	Wed	480 326 45 40290 69250 46851 ... 83081 04606 39680 326 45 00000	USB	(AB/Lac)
S06	9-4	1030	11128	Wed	480 326 45 40290 69250 46851 ... 83081 04606 39680 326 45 00000	USB	(Lac)
S06	12-4	1600	11487	Sat	480 517 43 68178 92126 67353 ... 82829 04363 86378 517 43 00000	USB	(AB/Lac)
S06	12-4	1630	9412	Sat	480 517 43 68178 92126 67353 ... 82829 04363 86378 517 43 00000	USB	(AB/Lac)
S06	13-4	0730	13945	Sun	480 517 43 68178 92126 67353 ... 82829 04363 86378 517 43 00000	USB	(AB/Lac)

S06	13-4	0800	11128	Sun	480 517 43 68178 92126 67353 ... 82829 04363 86378 517 43 00000	USB	(AB/Lac)
S06	16-4	0400	11616	Wed	480 172 30 46801 60808 52292 ... 05701 64699 80687 172 30 480 593 21 81489 94529 56876 ... 63915 55283 38848 593 21 00000	USB	(Lac)
S06	16-4	0420	9322	Wed	480 (R4) off	USB	(Lac)
S06	16-4	0930	12207	Wed	480 269 37 29018 68753 10193 ... 78069 21780 10509 269 37 00000	USB	(AB/Lac)
S06	16-4	1030	11128	Wed	480 269 37 29018 68753 10193 ... 78069 21780 10509 269 37 00000	USB	(AB/Lac)
S06	18-4	1900	9925	Fri	842 842 842 00000	USB	(AB)
S06	18-4	2000	7505	Fri	842 842 842 00000	USB	(AB)
S06	23-4	0930	12207	Wed	480 369 42 15816 14613 19728 ... 63593 28474 37629 369 42 00000	USB	(AB-RUS/Lac)
S06	23-4	1030	11128	Wed	480 369 42 15816 14613 19728 ... 63593 28474 37629 369 42 00000	USB	(AB-RUS/Lac)
S06	26-4	1600	11487	Sat	480 127 45 15150 96187 43068 ... 83201 02321 01432 127 45 00000	USB	(AB/Lac)
S06	26-4	1630	9412	Sat	480 127 45 15150 96187 43068 ... 83201 02321 01432 127 45 00000	USB	(AB/Lac)
S06	27-4	0730	13945	Sun	480 127 45 15150 96187 43068 ... 83201 02321 01432 127 45 00000	USB	(AB/Lac)
S06	27-4	0800	11128	Sun	480 127 45 15150 96187 43068 ... 83201 02321 01432 127 45 00000	USB	(AB/Lac)
S06	30-4	0400	11616	Wed	480 00000	USB	(Lac)
S06	30-4	0420	9320	Wed	480 00000	USB	(Lac)
S06	30-4	0930	12207	Wed	480 356 44 65816 75283 61918 ... 10246 26389 98501 356 44 00000	USB	(AB-RUS/Lac)
S06	30-4	1030	11128	Wed	480 356 44 65816 75283 61918 ... 10246 26389 98501 356 44 00000	USB	(AB-RUS/Lac)
S06c	21-4	0830	11513	Mon	11513	USB	(kalv)
S06c	21-4	0920	3731	Mon	11513	USB	(kalv)
S06c	21-4	0930	4643	Mon	11513	USB	(kalv)
S11a	1-4	0445	10728	Tue	Message. Too weak to copy	USB	(TM)
S11a	1-4	0725	23353	Tue	382/00 Konets	USB	(Lac)
S11a	1-4	1400	11420	Tue	425/00 Konets	USB	(AB/Lac)
S11a	2-4	0510	23004	Wed	652/00 Konets	USB	(AB-POL/HFD)
S11a	2-4	0725	23353	Wed	382/00 Konets	USB	(AB-POL)
S11a	2-4	1850	10213	Wed	284/34 Vnimanije 70022 73601 25379 ... 79529 66973 16230 Vnimanije (msg rptd) Konets	USB	(AB/Lac)
S11a	3-4	0445	10728	Thu	794/33 Vnimanije 90157 54581 59191 ... 30753 34410 55280 Vnimanije (msg rptd) Konets	USB	(TM)
S11a	4-4	0725	23353	Fri	389/00 Konets	USB	(AB-POL)
S11a	4-4	0915	6480	Fri	485/00 Konets	USB	(AB)
S11a	4-4	1400	11420	Fri	424/00 Konets	USB	(AB)
S11a	5-4	0830	6433	Sat	376/30 Vnimanije 35450 22149 21721 ... 83652 92416 66365 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	5-4	1850	10213	Sat	284/34 Vnimanije 70022 73601 25379 ... 79529 66973 16230 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	6-4	0830	6433	Sun	376/30 Vnimanije 35450 22149 21721 ... 83652 92416 66365 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	7-4	0700	8597	Mon	477/00 Konets	USB	(AB/Lac)
S11a	7-4	0915	6480	Mon	485/00 Konets	USB	(AB/Lac)

S11a	8-4	0445	10728	Tue	793/00 Konets	USB	(TM)
S11a	8-4	1400	11420	Tue	427/32 Vnimanaye 07951 28505 88353 ... 75840 30016 42229 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	9-4	0725	23353	Wed	389/40 Vnimanaye 16141 25826 72172 ... 22092 90468 77685 Vnimanaye (msg rptd) Konets	USB	(Lac)
S11a	9-4	1850	10213	Wed	286/00 Konets	USB	(AB)
S11a	10-4	0445	10728	Thu	799/00 Konets	USB	(TM)
S11a	10-4	0700	8597	Thu	471/00 Konets	USB	(AB/Lac)
S11a	11-4	0725	23353	Fri	389/40 Vnimanaye 16141 25826 72172 ... 22092 90468 77685 Vnimanaye (msg rptd) Konets	USB	(Lac)
S11a	11-4	0915	6480	Fri	487/00 Konets	USB	(AB/Lac)
S11a	11-4	1400	11420	Fri	427/32 Vnimanaye 07951 28505 88353 ... 75840 30016 42229 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	12-4	0830	6433	Sat	373/00 Konets	USB	(AB/Lac)
S11a	12-4	1850	10213	Sat	287/00 Konets	USB	(AB-FIN/Lac)
S11a	13-4	0830	6433	Sun	373/00 Konets	USB	(AB/Lac)
S11a	14-4	0700	8597	Mon	477/32 Vnimanaye 71707 70282 64593 ... 60225 19413 01437 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	14-4	0915	6480	Mon	482/00 Konets	USB	(AB/Lac)
S11a	15-4	0445	10728	Tue	797/00 Konets (too weak to copy)	USB	(TM)
S11a	15-4	1400	11420	Tue	420/00 Konets	USB	(AB/Lac)
S11a	16-4	0510	23004	Wed	659/00 Konets	USB	(AB/Lac)
S11a	16-4	1850	10213	Wed	287/00 Konets	USB	(AB/Lac)
S11a	17-4	0700	8597	Thu	477/32 Vnimanaye 71707 70282 64593 ... 60225 19413 01437 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	18-4	0725	23353	Fri	389/00 Konets	USB	(AB/Lac)
S11a	18-4	0915	6480	Fri	480/00 Konets	USB	(AB-POL)
S11a	18-4	1400	11420	Fri	429/00 Konets	USB	(AB)
S11a	19-4	0830	6433	Sat	377/00 Konets	USB	(AB/Lac)
S11a	20-4	0830	6433	Sun	371/00 Konets	USB	(AB)
S11a	21-4	0510	23004	Mon	656/32 Vnimanaye 00339 08875 67839 ... 57935 62186 82470 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	21-4	0700	8597	Mon	475/00 Konets	USB	(AB/Lac)
S11a	21-4	0915	6480	Mon	485/31 Vnimanaye 81396 89723 24693 ... 78396 35977 39044 Vnimanaye (msg rptd) Konets	USB	(AB-POL/Lac)
S11a	22-4	0445	10728	Tue	797/00 Konets	USB	(AB-POL)
S11a	22-4	1400	11420	Tue	421/00 Konets	USB	(AB)
S11a	23-4	0510	23004	Wed	656/32 Vnimanaye 00339 08875 67839 ... 57935 62186 82470 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	23-4	0725	23353	Wed	380/00 Konets	USB	(AB-POL)
S11a	23-4	1850	10213	Wed	281/00 Konets	USB	(AB)
S11a	24-4	0700	8597	Thu	479/00 Konets	USB	(AB)

S11a	24-4	0745	10728	Thu	794/00 Konets	USB	(AB-POL)
S11a	25-4	0725	23353	Fri	385/00 Konets	USB	(AB-POL)
S11a	25-4	0915	6480	Fri	485/31 Vnimanaye 81396 89723 24693 ... 78396 35977 39044 Vnimanaye (msg rptd) Konets	USB	(AB-POL)
S11a	25-4	1400	11420	Fri	421/00 Konets	USB	(AB)
S11a	26-4	0830	6433	Sat	373/00 Konets	USB	(AB)
S11a	26-4	1850	10213	Sat	284/00 Konets	USB	(AB)
S11a	27-4	0830	6433	Sun	379/00 Konets	USB	(AB)
S11a	28-4	0510	23004	Mon	650/00 Konets	USB	(AB-POL)
S11a	28-4	0700	8597	Mon	478/00 Konets	USB	(AB)
S11a	28-4	0915	6480	Mon	486/00 Konets	USB	(AB-POL)
S11a	29-4	0445	10728	Tue	796/00 Konets	USB	(AB-POL)
S11a	29-4	1400	11420	Tue	422/00 Konets	USB	(AB/Lac)
S11a	30-4	0510	23004	Wed	650/00 Konets	USB	(AB-POL/Lac)
S11a	30-4	0725	23353	Wed	380/00 Konets	USB	(AB-POL/Lac)
S11a	30-4	1850	10213	Wed	280/00 Konets	USB	(AB)
TUN	24-4	0941	10176	Thu	STAT1: MFA Tunis sounding	MIL-STD 188-141	(AB)
UM04	1-4	0700	4735	Tue	VVV VVV PROMRCh = 01 04 = 1000 1090 1130 1290 1790 ... 0800 0850 0890 1050 1510 = AR	CW	(AB-GRC)
UM04	2-4	0700	4735	Wed	VVV VVV PROMRCh = 02 04 = 1000 1090 1130 1290 1790 ... 0800 0850 0900 1050 1510 = AR	CW	(AB-GRC)
UM04	3-4	0700	4735	Thu	VVV VVV PROMRCh = 03 04 = 1000 1090 1140 1300 1790 ... 0800 0860 0900 1060 1520 = AR	CW	(AB-GRC)
UM04	5-4	0700	4735	Sat	VVV VVV PROMRCh = 05 04 = 1000 1080 1120 1250 1770 ... 0800 0850 0900 1050 1500 = AR	CW	(AB-GRC)
UM04	6-4	0659	4735	Sun	VVV VVV PROMRCh = 06 04 = 1000 1070 1110 1260 1740 ... 0800 0850 0890 1040 1480 = AR	CW	(AB-GRC)
UM04	7-4	0700	4735	Mon	VVV VVV PROMRCh = 07 04 = 1000 1050 1080 1240 1710 ... 0800 0830 0880 1020 1470 = AR	CW	(AB-GRC)
UM04	8-4	0700	4735	Tue	VVV VVV PROMRCh = 08 04 = 1000 1030 1070 1220 1680 ... 0800 0820 0860 1010 1440 = AR	CW	(AB-HRV)
UM04	9-4	0700	4735	Wed	VVV VVV PROMRCh = 09 04 = 1000 1010 1050 1200 1660 ... 0800 0800 0850 0990 1420 = AR	CW	(AB-GRC)
UM04	10-4	0700	4735	Thu	VVV VVV PROMRCh = 10 04 = 1000 1010 1050 1190 1650 ... 0800 0800 0840 0980 1410 = AR	CW	(AB-GRC)
UM04	11-4	0700	4735	Fri	VVV VVV PROMRCh = 11 04 = 1000 0990 1030 1170 1620 ... 0800 0780 0830 0970 1390 = AR	CW	(AB-HNG)
UM04	12-4	0700	4735	Sat	VVV VVV PROMRCh = 12 04 = 1000 0980 1020 1160 1610 ... 0800 0780 0820 0960 1380 = AR	CW	(AB-GRC)
UM04	13-4	0700	4735	Sun	VVV VVV PROMRCh = 13 04 = 1000 0980 1020 1150 1590 ... 0800 0770 0820 0950 1360 = AR	CW	(AB-GRC)
UM04	14-4	0700	4735	Mon	VVV VVV PROMRCh = 14 04 = 1000 0970 1000 1140 1580 ... 0800 0770 0810 0740 1350 = AR	CW	(AB-GRC)
UM04	15-4	0700	4735	Tue	VVV VVV PROMRCh = 15 04 = 1000 0960 1000 1130 1570 ... 0800 0760 0800 0930 1330 = AR	CW	(AB-HRV)
UM04	17-4	0700	4735	Thu	VVV VVV PROMRCh = 17 04 = 1000 0930 0960 1100 1520 ... 0800 0740 0770 0910 1300 = AR	CW	(AB-GRC)
UM04	18-4	0700	4735	Fri	VVV VVV PROMRCh = 18 04 = 1000 0910 0940 1080 1490 ... 0800 0730 0770 0900 1290 = AR	CW	(AB-HNG)
UM04	19-4	0700	4735	Sat	VVV VVV PROMRCh = 19 04 = 1000 0900 0930 1060 1470 ... 0800 0720 0760 0890 1470 = AR	CW	(AB-GRC)
UM04	21-4	0700	4735	Mon	VVV VVV PROMRCh = 21 04 = 1000 0870 0910 1030 1430 ... 0800 0710 0750 0870 1250 = AR	CW	(AB-GRC)
UM04	22-4	0700	4735	Tue	VVV VVV PROMRCh = 22 04 = 1000 0870 0900 1030 1430 ... 0800 0710 0740 0870 1250 = AR	CW	(AB-GRC)
UM04	24-4	0659	4735	Thu	VVV VVV PROMRCh = 24 04 = 1000 0860 0890 1020 1440 ... 0800 0700 0740 0870 1240 = AR	CW	(AB-GRC)
UM04	25-4	0700	4735	Fri	VVV VVV PROMRCh = 25 04 = 1000 0860 0890 1020 1440 ... 0800 0700 0740 0860 1250 = AR	CW	(AB-HNG)
UM04	26-4	0703	4735	Sat	VVV VVV PROMRCh = 26 04 = 1000 0870 0910 1030 1440 ... 0800 0720 0750 0880 1260 = AR	CW	(AB-GRC)
UM04	27-4	0700	4735	Sun	VVV VVV PROMRCh = 27 04 = 1000 0880 0920 1040 1450 ... 0800 0730 0770 0890 1270 = AR	CW	(AB-HNG)
UM04	28-4	0700	4735	Mon	VVV VVV PROMRCh = 28 04 = 1000 0900 0930 1060 1460 ... 0800 0740 0780 0910 1290 = AR	CW	(AB-GRC)

V07	6-4	0200	17431	Sun	414 414 414 1 8857 45 8857 45 56761 75875 54431 ... 39669 03923 55631 000 000	USB	(Dan/HFD-USA)
V07	6-4	0220	16131	Sun	414 414 414 1 8857 45 8857 45 56761 75875 54431 ... 39669 03923 55631 000 000	USB	(HFD-USA)
V07	6-4	0240	14431	Sun	414 414 414 1 8857 45 8857 45 56761 75875 54431 ... 39669 03923 55631 000 000	USB	(HFD-USA)
V07	13-4	0200	17431	Sun	414 414 414 1 4737 119 4737 119 04154 30910 82227 ... 90394 18102 13586 000 000	USB	(Dan)
V07	20-4	0200	17431	Sun	414 414 414 1 9346 61 9346 61 29078 42423 62148 ... 97781 43455 01127 000 000	USB	(Dan)
V07	27-4	0200	17431	Sun	414 414 414 1 4388 39 4388 39 05591 78643 87358 ... 52741 45595 30340 000 000	USB	(Dan)
V13	6-4	0000	15890	Sun	New Star Broadcasting. Station 3. Messages to units 1535, 6738, 8886	USB	(FSpy)
V13	6-4	0130	20025	Sun	New Star Broadcasting. Station 4. Messages to units 2646, 3637, 7780	USB	(FSpy)
V13	6-4	0300	9276	Sun	New Star Broadcasting. Station 2. Messages to units 0952, 7387, 9622	USB	(FSpy)
V13	6-4	0330	11430	Sun	New Star Broadcasting. Station 1. Messages to units 1951, 2174, 3216	USB	(FSpy)
V13	13-4	0005	15890	Sun	New Star Broadcasting. Station 3. Messages to units 2985, 5077, 7105	USB	(FSpy)
V13	13-4	0130	20025	Sun	New Star Broadcasting. Station 4. Messages to units 0523, 3594, 6084	USB	(FSpy)
V13	13-4	0230	8169	Sun	New Star Broadcasting. Station 1. Messages to units 5444, 6922, 7318	USB	(FSpy)
V13	14-4	0200	8300	Mon	New Star Broadcasting. Station 2. Messages to units 0119, 3617, 4859	USB	(FSpy)
V13	21-4	0030	8300	Mon	New Star Broadcasting. Station 3. Messages to units 3723, 8132, 9042	USB	(FSpy)
V13	21-4	0030	15890	Mon	New Star Broadcasting. Station 3. Messages to units 3723, 8132, 9042	USB	(FSpy)
V13	21-4	0100	20025	Mon	New Star Broadcasting. Station 4. Messages to units 0869, 5802, 9984	USB	(FSpy)
V13	21-4	0200	8169	Mon	New Star Broadcasting. Station 1. Messages to units 2942, 4833, 5977	USB	(FSpy)
V13	27-4	0005	15890	Sun	New Star Broadcasting. Station 3. Messages to units 5907, 7452, 8862	USB	(FSpy)
V13	27-4	0100	20025	Sun	New Star Broadcasting. Station 4. Messages to units 1022, 3975, 5668	USB	(FSpy)
V13	28-4	0205	8169	Mon	New Star Broadcasting. Station 1. Messages to units 0050, 3848, 7666	USB	(FSpy)
V13	29-4	0200	8300	Tue	New Star Broadcasting. Station 2. Messages to units 0763, 1688, 8441	USB	(FSpy)
V13a	6-4	0030	19052	Sun	New Star Broadcasting. Station 1. Messages to units 2987, 3088, 3252, 3676, 3498, 3745, 3935	AM	(FSpy)
V13a	14-4	0130	19052	Mon	New Star Broadcasting. Station 1. Messages to units 4218, 4270, 4667, 4943, 5090, 5356	AM	(FSpy)
V13a	21-4	0000	19052	Mon	New Star Broadcasting. Station 1. Messages to units 6016, 6122, 6695, 6749, 6983	AM	(FSpy)
V26	6-4	0900	6516	Sun	Message i.p. followed by Q26 at 0902z	USB	(Moon)
V26	8-4	1200	9042	Tue	Female operator reading a message	USB	(Moon)
V26	11-4	1140	9042	Fri	Messages followed by Q26 and M95	USB	(Moon)
V26	11-4	1208	9042	Fri	Messages	USB	(Moon)
V26	19-4	1140	4156	Sat	Traffic i.p. //9042 kHz	USB	(JPL-J)
V26	19-4	1140	9042	Sat	Traffic i.p. //4156 kHz	USB	(JPL-J)
V26	19-4	1215	4156	Sat	Message //9042 kHz	USB	(JPL-J)
V26	19-4	1215	9042	Sat	Message //4156 kHz	USB	(JPL-J)
V26	24-4	1130	4542	Thu	Message	USB	(JPL-KOR)
V26	25-4	1129	4542	Fri	Message	USB	(JPL-HK)
X--	3-4	0830	18237	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	0834	17433	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	0851	13397	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	0932	18563	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1005	18567	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)

X--	3-4	1017	14547	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1022	13416	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1346	14547	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1435	18237	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1440	17443	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1446	15937	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1453	14383	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	3-4	1457	13397	Thu	Russian intel.	MKSK-21/MFSK-13	(AB)
X--	4-4	0759	18541	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	0929	17524	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1004	18541	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1009	17524	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1013	13891	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1111	18541	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1115	17524	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1223	17443	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1226	15937	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	4-4	1230	14913	Fri	Russian intel.	MFSK-21/MFSK-13	(AB/F1GOC)
X--	4-4	1235	14913	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	11-4	0820	17423	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	12-4	1616	9179	Sat	Russian diplo	MFSK-21/MFSK-13	(AB)
X--	22-4	1015	18561	Tue	Russian intel	MFSK-21/MFSK-13	(AB)
X--	22-4	1438	17492	Tue	Russian intel	MFSK-21/MFSK-13	(AB)
X--	28-4	1005	19083	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	28-4	1106	18541	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	28-4	1110	17524	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	28-4	1120	13891	Mon	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1029	18541	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1032	17524	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1044	19083	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1236	18569	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1240	16274	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1243	12138	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1427	18541	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1431	17524	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	29-4	1435	13891	Tue	Russian intel.	MFSK-21/MFSK-13	(AB)
X06	1-4	0739	14615	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(Moon)
X06	3-4	0907	18245	Thu	MFA Moscow clg 231654: Russian embassy Abuja	MFSK-6	(AB)
X06	3-4	1429	16132	Thu	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(AB)
X06	3-4	1511	17468	Thu	MFA Moscow clg 436512: Russian embassy Harare	MFSK-6	(AB)
X06	4-4	1303	14720	Fri	MFA Moscow clg 241563: Russian Consulate General Karachi	MFSK-6	(AB)
X06	8-4	0803	13420	Tue	MFA Moscow clg 534216: Russian embassy Baghdad	MFSK-6	(AB/Moon)

X06	10-4	0820	16153	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(AB/T101)
X06	11-4	0641	14635	Fri	MFA Moscow c;g 341265: unid Russian embassy	MFSK-6	(AB)
X06	11-4	0649	11155	Fri	MFA Moscow c;g 341265: unid Russian embassy	MFSK-6	(AB)
X06	15-4	0802	14615	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbataar	MFSK-6	(AB/RO)
X06	15-4	0900	18523	Tue	MFA Moscow clg 325614: Russian embassy Nairobi	MFSK-6	(RO)
X06	18-4	0651	9252	Fri	111666 (ended at 0845z)	MFSK-6	(AB)
X06	18-4	1010	15950	Fri	111111	CW	(RO)
X06	18-4	1047	14824	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(AB)
X06	18-4	1308	14720	Fri	MFA Moscow clg 241563: Russian Consulate General Karachi	MFSK-6	(AB)
X06	22-4	0814	17523	Tue	MFA Moscow clg 542136: Russian embassy Beijing	MFSK-6	(AB)
X06	24-4	0855	13407	Thu	MFA Moscow clg 153624: Russian embassy Damascus	MFSK-6	(AB)
X06	25-4	0824	12177	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(AB)
X06	25-4	1011	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(Moon)
X06	27-4	1030	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(RO)
X06	28-4	0926	19235	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(AB/Moon)
Xo6	2-4	1101	16115	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(Rycat)
XPA1	2-4	1210	13368	Wed	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB/HFD)
XPA1	2-4	1230	12168	Wed	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB/HFD)
XPA1	2-4	1250	11168	Wed	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB/HFD)
XPA1	4-4	1210	13368	Fri	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB)
XPA1	4-4	1230	12168	Fri	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB)
XPA1	4-4	1250	11168	Fri	311 311 311 1 00379 00221 64438 ... 44090 65932 27611	MFSK-20/10Bd	(AB)
XPA1	9-4	1210	13368	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	9-4	1230	12168	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	9-4	1250	11168	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	11-4	1210	13368	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	11-4	1230	12168	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	11-4	1250	11168	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	16-4	1210	13368	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	16-4	1230	12168	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	16-4	1250	11168	Wed	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	18-4	1210	13368	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	18-4	1230	12168	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	18-4	1250	11168	Fri	311 311 311 1 00762 00182 47610 ... 43992 74388 44704	MFSK-20/10Bd	(AB)
XPA1	23-4	1210	13368	Wed	311 311 311 000 07148 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA1	23-4	1230	12168	Wed	311 311 311 000 07148 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA1	23-4	1250	11168	Wed	311 311 311 000 07148 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA1	25-4	1210	13368	Fri	311 311 311 000 06429 00001 00000 37660	MFSK-20/10Bd	(AB)
XPA1	25-4	1230	12168	Fri	311 311 311 000 06429 00001 00000 37660	MFSK-20/10Bd	(AB)
XPA1	25-4	1250	11168	Fri	311 311 311 000 06429 00001 00000 37660	MFSK-20/10Bd	(AB)
XPA1	30-4	1210	13368	Wed	311 311 311 1 02720 00074 27483 ... 43131 80855 27515	MFSK-20/10Bd	(AB)
XPA1	30-4	1230	12168	Wed	311 311 311 1 02720 00074 27483 ... 43131 80855 27515	MFSK-20/10Bd	(AB)

XPA1	30-4	1250	11168	Wed	311 311 311 1 02720 00074 27483 ... 43131 80855 27515	MFSK-20/10Bd	(AB)
XPA2	1-4	1100	16341	Tue	05389 00073 00889 ... 12866 66153 44527	MFSK-16/20Bd	(AB/HFD)
XPA2	1-4	1120	14841	Tue	05389 00073 00889 ... 12866 66153 44527	MFSK-16/20Bd	(AB/HFD)
XPA2	1-4	1140	13941	Tue	05389 00073 00889 ... 12866 66153 44527	MFSK-16/20Bd	(AB/HFD)
XPA2	1-4	1700	19372	Tue	01987 00001 00000 41261	MFSK-16/20Bd	(AB)
XPA2	1-4	1720	18291	Tue	01987 00001 00000 41261	MFSK-16/20Bd	(AB)
XPA2	1-4	1740	17453	Tue	01987 00001 00000 41261	MFSK-16/20Bd	(AB)
XPA2	2-4	0700	11409	Wed	08177 00001 00000 35267	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	0720	12209	Wed	08177 00001 00000 35267	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	0740	13409	Wed	08177 00001 00000 35267	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	0910	18038	Wed	02106 00001 00000 34652	MFSK-16/20Bd	(AB)
XPA2	2-4	0930	17474	Wed	02106 00001 00000 34652	MFSK-16/20Bd	(AB)
XPA2	2-4	0950	16286	Wed	02106 00001 00000 34652	MFSK-16/20Bd	(AB)
XPA2	2-4	1100	17426	Wed	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	1120	16326	Wed	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	1140	14926	Wed	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	1800	15872	Wed	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	1820	14972	Wed	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB/HFD)
XPA2	2-4	1840	13872	Wed	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB/HFD)
XPA2	3-4	0910	15859	Thu	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	3-4	0930	14659	Thu	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	3-4	0950	13459	Thu	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	3-4	1100	17426	Thu	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB)
XPA2	3-4	1120	16326	Thu	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB)
XPA2	3-4	1140	14926	Thu	04108 00177 85714 ... 45158 34579 75022	MFSK-16/20Bd	(AB)
XPA2	3-4	1700	19372	Thu	02023 00001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	3-4	1720	18291	Thu	02023 00001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	3-4	1740	17453	Thu	02023 00001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	4-4	1100	16341	Fri	05389 00073 00889 ... 12976 76153 44527	MFSK-16/20Bd	(AB)
XPA2	4-4	1120	14841	Fri	05389 00073 00889 ... 12976 76153 44527	MFSK-16/20Bd	(AB)
XPA2	4-4	1140	13941	Fri	05389 00073 00889 ... 12976 76153 44527	MFSK-16/20Bd	(AB)
XPA2	4-4	1800	15872	Fri	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB-S)
XPA2	4-4	1820	14972	Fri	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB-S)
XPA2	4-4	1840	13872	Fri	02264 00196 87752 ... 13114 72365 31345	MFSK-16/20Bd	(AB-S)
XPA2	5-4	0910	15859	Sat	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	5-4	0930	14659	Sat	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	5-4	0950	13459	Sat	00712 00200 41029 ... 03925 65570 47045	MFSK-16/20Bd	(AB)
XPA2	5-4	1500	15881	Sat	06775 00001 00000 37265	MFSK-16/20Bd	(AB/HFD)
XPA2	5-4	1520	14481	Sat	06775 00001 00000 37265	MFSK-16/20Bd	(AB/HFD)
XPA2	5-4	1540	13381	Sat	06775 00001 00000 37265	MFSK-16/20Bd	(AB/HFD)
XPA2	7-4	0700	11409	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	7-4	0720	12209	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)

XPA2	7-4	0740	13409	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	7-4	0910	18038	Mon	02290 00001 00000 32263	MFSK-16/20Bd	(AB/HFD)
XPA2	7-4	0930	17474	Mon	02290 00001 00000 32263	MFSK-16/20Bd	(AB/HFD)
XPA2	7-4	0950	16286	Mon	02290 00001 00000 32263	MFSK-16/20Bd	(AB/HFD)
XPA2	7-4	1500	15881	Mon	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	7-4	1520	14481	Mon	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	7-4	1540	13381	Mon	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	8-4	0700	9338	Tue	06825 00160 93832 ... 46469 08775 71176	MFSK-16/20Bd	(PY)
XPA2	8-4	0720	11574	Tue	06825 00160 93832 ... 46469 08775 71176	MFSK-16/20Bd	(AB/PY)
XPA2	8-4	0740	9338	Tue	00033 00151 36122 ... 47766 00322 62505	MFSK-16/20Bd	(PY)
XPA2	8-4	0800	11574	Tue	00033 00151 36122 ... 47766 00322 62505	MFSK-16/20Bd	(PY)
XPA2	8-4	0820	9338	Tue	01896 00154 22560 ... 17095 06093 31407	MFSK-16/20Bd	(PY)
XPA2	8-4	0840	11574	Tue	01896 00154 22560 ... 17095 06093 31407	MFSK-16/20Bd	(PY)
XPA2	8-4	1100	16341	Tue	06894 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	8-4	1120	14841	Tue	06894 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	8-4	1140	13941	Tue	06894 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	8-4	1700	19372	Tue	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	8-4	1720	18291	Tue	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	8-4	1740	17453	Tue	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	9-4	0700	11409	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	9-4	0720	12209	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	9-4	0740	13409	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	9-4	0910	18038	Wed	04677 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	9-4	0930	17474	Wed	04677 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	9-4	0950	16286	Wed	04677 00001 00000 37663	MFSK-16/20Bd	(AB)
XPA2	9-4	1100	17426	Wed	03104 00001 00000 33653	MFSK-16/20Bd	(AB)
XPA2	9-4	1120	16326	Wed	03104 00001 00000 33653	MFSK-16/20Bd	(AB)
XPA2	9-4	1140	14926	Wed	03104 00001 00000 33653	MFSK-16/20Bd	(AB)
XPA2	9-4	1800	15872	Wed	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	9-4	1820	14972	Wed	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	9-4	1840	13872	Wed	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	10-4	0910	15859	Thu	02321 000001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	10-4	0930	14659	Thu	02321 000001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	10-4	0950	13459	Thu	02321 000001 00000 33254	MFSK-16/20Bd	(AB/HFD)
XPA2	10-4	1100	17426	Thu	03590 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	10-4	1120	16326	Thu	03590 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	10-4	1140	14926	Thu	03590 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	10-4	1700	19372	Thu	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	10-4	1720	18291	Thu	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	10-4	1740	17453	Thu	06646 00125 08592 ... 02016 46955 46430	MFSK-16/20Bd	(AB)
XPA2	11-4	1100	16341	Fri	05990 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	11-4	1120	14841	Fri	05990 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	11-4	1140	13941	Fri	05990 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	11-4	1800	15872	Fri	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	11-4	1820	14972	Fri	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	11-4	1840	13872	Fri	00601 00235 63180 ... 46035 00141 45607	MFSK-16/20Bd	(AB)
XPA2	12-4	0910	15859	Sat	06542 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	12-4	0930	14659	Sat	06542 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	12-4	0950	13459	Sat	06542 00001 00000 34662	MFSK-16/20Bd	(AB)
XPA2	12-4	1500	15881	Sat	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	12-4	1520	14481	Sat	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	12-4	1540	13381	Sat	05280 00135 61870 ... 25207 10843 30675	MFSK-16/20Bd	(AB)
XPA2	14-4	0700	11409	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	14-4	0720	12209	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	14-4	0740	13409	Mon	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	14-4	0910	18038	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	14-4	0930	17474	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	14-4	0950	16286	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	14-4	1500	15881	Mon	08213 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	14-4	1520	14481	Mon	08213 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	14-4	1540	13381	Mon	08213 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	15-4	1100	16341	Tue	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB)
XPA2	15-4	1120	14841	Tue	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB/RL-HOL)
XPA2	15-4	1140	13941	Tue	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB/RL-HOL)
XPA2	15-4	1700	19372	Tue	05495 00001 00000 35666	MFSK-16/20Bd	(AB)
XPA2	15-4	1720	18291	Tue	05495 00001 00000 35666	MFSK-16/20Bd	(AB)
XPA2	15-4	1740	17453	Tue	05495 00001 00000 35666	MFSK-16/20Bd	(AB)
XPA2	16-4	0700	11409	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	16-4	0720	12209	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	16-4	0740	13409	Wed	00144 00086 02814 ... 31506 28408 21127	MFSK-16/20Bd	(AB)
XPA2	16-4	0910	18038	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	16-4	0930	17474	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	16-4	0950	16286	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	16-4	1100	17426	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	16-4	1120	16326	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	16-4	1140	14926	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	16-4	1800	15872	Wed	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	16-4	1820	14972	Wed	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	16-4	1840	13872	Wed	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	17-4	0910	15859	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	17-4	0930	14659	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	17-4	0950	13459	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	17-4	1100	17426	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	17-4	1120	16326	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)

XPA2	17-4	1140	14926	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	17-4	1700	19372	Thu	04223 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	17-4	1720	18291	Thu	04223 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	17-4	1740	17453	Thu	04223 00001 00000 36655	MFSK-16/20Bd	(AB)
XPA2	18-4	1100	16341	Fri	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB)
XPA2	18-4	1120	14841	Fri	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB)
XPA2	18-4	1140	13941	Fri	02597 00035 52639 ... 05300 14053 37336	MFSK-16/20Bd	(AB)
XPA2	18-4	1800	15872	Fri	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	18-4	1820	14972	Fri	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	18-4	1840	13872	Fri	00647 00165 60180 ... 75175 17597 50752	MFSK-16/20Bd	(AB)
XPA2	19-4	0910	15859	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	19-4	0930	14659	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	19-4	0950	13459	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	19-4	1500	15881	Sat	08799 00001 00000 41271	MFSK-16/20Bd	(AB)
XPA2	19-4	1520	14481	Sat	08799 00001 00000 41271	MFSK-16/20Bd	(AB)
XPA2	19-4	1540	13381	Sat	08799 00001 00000 41271	MFSK-16/20Bd	(AB)
XPA2	21-4	0700	11409	Mon	01889 00001 00000 41661	MFSK-16/20Bd	(AB)
XPA2	21-4	0720	12209	Mon	01889 00001 00000 41661	MFSK-16/20Bd	(AB)
XPA2	21-4	0740	13409	Mon	01889 00001 00000 41661	MFSK-16/20Bd	(AB)
XPA2	21-4	0910	18038	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	21-4	0930	17474	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	21-4	0950	16286	Mon	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	21-4	1500	15881	Mon	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	21-4	1520	14481	Mon	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	21-4	1540	13381	Mon	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	22-4	1100	16341	Tue	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	22-4	1120	14841	Tue	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	22-4	1140	13941	Tue	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	22-4	1700	19372	Tue	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	22-4	1720	18291	Tue	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	22-4	1740	17453	Tue	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	23-4	0700	11409	Wed	08096 00001 00000 34271	MFSK-16/20Bd	(AB)
XPA2	23-4	0720	12209	Wed	08096 00001 00000 34271	MFSK-16/20Bd	(AB)
XPA2	23-4	0740	13409	Wed	08096 00001 00000 34271	MFSK-16/20Bd	(AB)
XPA2	23-4	0910	18038	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	23-4	0930	17474	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	23-4	0950	16286	Wed	05528 00164 22531 ... 35800 42324 46625	MFSK-16/20Bd	(AB)
XPA2	23-4	1100	17426	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	23-4	1120	16326	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	23-4	1140	14926	Wed	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	23-4	1800	15872	Wed	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)
XPA2	23-4	1820	14972	Wed	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)

XPA2	23-4	1840	13872	Wed	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)
XPA2	24-4	0910	15859	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	24-4	0930	14659	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	24-4	0950	13459	Thu	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	24-4	1100	17426	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	24-4	1120	16326	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	24-4	1140	14926	Thu	00296 00145 17720 ... 93512 85124 22546	MFSK-16/20Bd	(AB)
XPA2	24-4	1700	19372	Thu	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	24-4	1720	18291	Thu	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	24-4	1740	17453	Thu	00813 00180 61720 ... 41655 78077 16244	MFSK-16/20Bd	(AB)
XPA2	25-4	1100	16341	Fri	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	25-4	1120	14841	Fri	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	25-4	1140	13941	Fri	07567 00097 61327 ... 36433 74945 44333	MFSK-16/20Bd	(AB)
XPA2	25-4	1800	15872	Fri	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)
XPA2	25-4	1820	14972	Fri	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)
XPA2	25-4	1840	13872	Fri	07565 00150 10345 ... 53978 94739 32543	MFSK-16/20Bd	(AB)
XPA2	26-4	0910	15859	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	26-4	0930	14659	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	26-4	0950	13459	Sat	00196 00187 38503 ... 50244 74376 40434	MFSK-16/20Bd	(AB)
XPA2	26-4	1500	15881	Sat	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	26-4	1520	14481	Sat	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	26-4	1540	13381	Sat	02677 00127 37434 ... 85165 11781 47532	MFSK-16/20Bd	(AB)
XPA2	28-4	0700	11409	Mon	02753 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	28-4	0720	12209	Mon	02753 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	28-4	0740	13409	Mon	02753 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	28-4	0910	18038	Mon	05951 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	28-4	0930	17474	Mon	05951 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	28-4	0950	16286	Mon	05951 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	28-4	1500	15881	Mon	06492 00001 00000 34267	MFSK-16/20Bd	(AB)
XPA2	28-4	1520	14481	Mon	06492 00001 00000 34267	MFSK-16/20Bd	(AB)
XPA2	28-4	1540	13381	Mon	06492 00001 00000 34267	MFSK-16/20Bd	(AB)
XPA2	29-4	1100	16341	Tue	01901 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	29-4	1120	14841	Tue	01901 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	29-4	1140	13941	Tue	01901 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	29-4	1700	19372	Tue	07941 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	29-4	1720	18291	Tue	07941 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	29-4	1740	17453	Tue	07941 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	30-4	0700	11409	Wed	03444 00001 00000 35257	MFSK-16/20Bd	(AB)
XPA2	30-4	0720	12209	Wed	03444 00001 00000 35257	MFSK-16/20Bd	(AB)
XPA2	30-4	0740	13409	Wed	03444 00001 00000 35257	MFSK-16/20Bd	(AB)
XPA2	30-4	0910	18038	Wed	06485 00001 00000 35666	MFSK-16/20Bd	(AB)
XPA2	30-4	0930	17474	Wed	06485 00001 00000 35666	MFSK-16/20Bd	(AB)

XPA2	30-4	0950	16286	Wed	06485 00001 00000 35666	MFSK-16/20Bd	(AB)
XPA2	30-4	1100	17426	Wed	03833 00001 00000 36256	MFSK-16/20Bd	(AB)
XPA2	30-4	1120	16326	Wed	03833 00001 00000 36256	MFSK-16/20Bd	(AB)
XPA2	30-4	1140	14926	Wed	03833 00001 00000 36256	MFSK-16/20Bd	(AB)
XPA2	30-4	1800	15872	Wed	00764 00112 09487 ... 96254 93810 10660	MFSK-16/20Bd	(AB)
XPA2	30-4	1820	14972	Wed	00764 00112 09487 ... 96254 93810 10660	MFSK-16/20Bd	(AB)
XPA2	30-4	1840	13872	Wed	00764 00112 09487 ... 96254 93810 10660	MFSK-16/20Bd	(AB)
XPB1	1-4	0500	19517	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	0510	19317	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	0520	18217	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	0530	17417	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	0543	16317	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	0553	15817	Tue	Russian intel.	MFSK-16	(HFD)
XPB1	1-4	1300	20038	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-4	1310	19538	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-4	1320	18268	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-4	1330	17468	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-4	1340	16268	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-4	1350	15868	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-4	1100	13562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	2-4	1110	12162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	2-4	1120	11562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	2-4	1130	11162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	2-4	1140	10562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	2-4	1150	10262	Wed	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1300	20038	Fri	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1310	19538	Fri	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1320	18268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1330	17468	Fri	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1340	16268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	4-4	1350	15868	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1100	13562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1110	12162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1120	11562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1130	11162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1140	10562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	5-4	1150	10262	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7-4	0500	19517	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7-4	0510	19317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7-4	0520	18217	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7-4	0530	17417	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7-4	0540	16317	Mon	Russian intel.	MFSK-16	(AB)

XPB1	7-4	0550	15817	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0500	19517	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0510	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0520	18217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0530	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0540	16317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	0550	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1300	20038	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1310	19538	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1320	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1330	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1340	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	8-4	1350	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-4	1100	13562	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-4	1110	12162	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-4	1120	11562	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-4	1130	11162	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-4	1140	10562	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	9-4	1150	10262	Wed	Russian intel.	MFSK-16	(AB/HFD)
XPB1	11-4	1300	20038	Fri	Russian intel.	MFSK-16	(AB)
XPB1	11-4	1310	19538	Fri	Russian intel.	MFSK-16	(AB)
XPB1	11-4	1320	18268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	11-4	1330	17468	Fri	Russian intel.	MFSK-16	(AB)
XPB1	11-4	1340	16268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	11-4	1350	15868	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1100	13562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1110	12162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1120	11562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1130	11162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1140	10562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12-4	1150	10262	Sat	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0500	19517	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0510	19317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0520	18217	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0530	17417	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0540	16317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14-4	0550	15817	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-4	0500	19517	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	0510	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	0520	18217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	0530	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	0540	16317	Tue	Russian intel.	MFSK-16	(AB)

XPB1	15-4	0550	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1300	20038	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1310	19538	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1320	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1330	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1340	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	15-4	1350	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1100	13562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1110	12162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1120	11562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1130	11162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1140	10562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	16-4	1150	10262	Wed	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1300	20038	Fri	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1310	19538	Fri	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1320	18268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1330	17468	Fri	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1340	16268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	18-4	1350	15868	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1100	13562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1110	12162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1120	11562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1130	11162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1140	10562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	19-4	1150	10262	Sat	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0500	19517	Mon	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0510	19317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0520	18217	Mon	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0530	17417	Mon	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0540	16317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	21-4	0550	15817	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0500	19517	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0510	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0520	18217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0530	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0540	16317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	0550	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	1300	20038	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	1310	19538	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	1320	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	1330	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	22-4	1340	16268	Tue	Russian intel.	MFSK-16	(AB)

XPB1	22-4	1350	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1100	13562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1110	12162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1120	11562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1130	11162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1140	10562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	23-4	1150	10262	Wed	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1300	20038	Fri	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1310	19538	Fri	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1320	18268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1330	17468	Fri	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1340	16268	Fri	Russian intel.	MFSK-16	(AB)
XPB1	25-4	1350	15868	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1100	13562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1110	12162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1120	11562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1130	11162	Sat	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1140	10562	Sat	Russian intel.	MFSK-16	(AB)
XPB1	26-4	1150	10262	Sat	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0500	19517	Mon	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0510	19317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0520	18217	Mon	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0530	17417	Mon	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0540	16317	Mon	Russian intel.	MFSK-16	(AB)
XPB1	28-4	0550	15817	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0500	19517	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0510	19317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0520	18217	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0530	17417	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0540	16317	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	0550	15817	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1300	20038	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1310	19538	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1320	18268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1330	17468	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1340	16268	Tue	Russian intel.	MFSK-16	(AB)
XPB1	29-4	1350	15868	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-4	1100	13562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	30-4	1110	12162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	30-4	1120	11562	Wed	Russian intel.	MFSK-16	(AB)
XPB1	30-4	1130	11162	Wed	Russian intel.	MFSK-16	(AB)
XPB1	30-4	1140	10562	Wed	Russian intel.	MFSK-16	(AB)

XPB1	30-4	1150	10262	Wed	Russian intel.	MFSK-16	(AB)
XSL	3-4	0517	4153	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	4231.5	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	4291	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	6250	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	6417	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	6445	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	8313	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	8588	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)
XSL	3-4	0517	8703.5	Thu	Japanese Navy. Telemetry (a.k.a. Slotmachine)	QPSK 1500Bd	(AB-J)

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-HRV	Ary Boender via remote rx Croatia
AB-I	Ary Boender via remote rx Italy
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
AB-USA	Ary Boender via remote rx USA
Cic	Ciccio Munaron, Italy
Dan	Daniel LU5EMM, Argentina
F1GOC	Michel Soldevila, France
FD	Full Day Waterfall, University Twente SDR
Fspy	Feline Spy SWL
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
Hutch	Hutch, London, UK
JPL-HK	JPL via remote rx Hong Kong
JPL-J	JPL via remote rx Japan
JPL-KOR	JPL via remote rx South Korea
JPL-RUS	JPL via remote rx Russia
JPL-TWN	JPL via remote rx Taiwan
Kalv	Kalvados
Karman	Karman via Priyom
Lac	Lazycrypt
Moon	Moonlight (Dave AU)
Pille	Pille
PY	Pierre Ynard, France and via remote rx
RL	Roberto Landolpho, Brazil
RL-HOL	Roberto Landolpho via remote rx Netherlands
RO	Rando One, Sweden
Rycat	Rycat
SW2	Sam
T101	RadiotekhnikaT101 via Priyom
TM	Time Machine
WN	William Neelin

APPENDIX

List of active stations

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		XP	MFSK (polytone) modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgsg	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgsg. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			

M89	Markers like V YHDX YHDX YHDX DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
M89v	M89 voice transmissions	CHN		Chinese military
M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese military
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-20/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-16/20Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- - . . - -
C	- . - .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	 -	Question mark	[?]	. . - - . .
E	.	5		Exclamation mark	[!]	- . - . - -
F	. . - .	6	-	Apostrophe	[']	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H		8	- - - . .	Slash	[/]	- . . - .
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - - .
K	- . -			Quotation marks	[" "]	. - . . - .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .			Plus sign	[+]	. - . - .
O	- - -			Invitation to transmit		- . -
P	. - . .			Wait	[AS]	. - . . .
Q	- - . -			End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ü	. . - -	End of message	[AR]	. - . - .
S	. . .			Starting signal		- . . - .
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - .
W	. - -			Ampersand	[&]	. - . . .
X	- . . .					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also
<http://udxf.nl/Morse-document.pdf>
<http://udxf.nl/Russian.pdf>

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3rd shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	nul	Null	Zero
1	. — — — —	Một	Van	adinka	Eins	One
2	. . — — —	Hai	To	dvoyka	Twso	Two
3	. . . — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bồ'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — . . .	Ba y	Seven	syem	Sieben	Seven
8	— — — . .	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	—					
/	—					

Note: E17z, M03 and M08a are defunct.

COLOPHON

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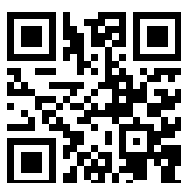
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 723 87629 37677 32612 53498 71296 28756 18276 98716 87
 7269 76329 74698 76857 98678 27681 56781 57681 73648 11
 591 87364 87265 96718 27638 12673 84769 28743 98127 50
 8 63298 75698 27465 87326 49876 28376 81273 98615 66
 67 87432 74328 78674 29867 32867 67867 86786 43266 486
 57 68768 68763 34234 34238 68768 62342 48273 48768 230
 36 98432 32432 86743 43286 43286 43286 43286 43286 43286
 743 86743 86743 39867 32867 86743 43286 43286 43243 86
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 343 98798 98754 98754 98754 98754 29867 67543 67986 80
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